

US EPA RECORDS CENTER REGION 5



410826

Report of
Groundwater Quality Assessment
South Macomb Disposal Authority
Site #11 and Walker Landfill
Macomb County, Michigan

KECK

Report of
Groundwater Quality Assessment
South Macomb Disposal Authority
Site #11 and Walker Landfill
Macomb County, Michigan

Prepared for:

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Romeo, Michigan 48065

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May 9, 1988

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INTRODUCTION

Keck Consulting Services, Inc. (KCS) has been retained to review the groundwater quality data which have been obtained from the South Macomb Disposal Authority Landfill #11 (SMDA) and to examine the direction of groundwater flow at the site. On October 29, 1987, personnel from KCS measured static water levels and top of casing elevations of the monitoring wells at both the SMDA and adjoining Walker Landfill Sites. The results of these measurements are provided in Appendix A.

Analytic & Biological Laboratories, Inc. conducted water quality analyses on samples which they collected from both landfills. The first report, with a cover letter dated October 29, 1987 includes data for samples collected from the SMDA Landfill on July 17, 1987 and samples collected from the Walker Landfill on October 29, 1987. The second report, with a cover letter dated November 3, 1987, provides data for samples collected from SMDA monitoring wells on September 22, 1987 and Walker Landfill on November 4, 1987. The results of the inorganic water quality determinations from these reports are provided in Appendix B and a summary of the available inorganic water quality data from 1984 to present is contained in Appendix C. The locations of all the monitoring wells, and contours of groundwater flow are shown in Figure 1.

The focus of this review will be to assess the water quality data both in terms of historical trends and the significance of detections relative to drinking water standards. In addition, the quality of groundwater will be assessed relative to flow patterns. The quality of the analytical data (QA/QC) will also be evaluated.

DISCUSSION

The quarterly monitoring reports from Analytic & Biological Laboratories, Inc. included the field monitoring protocol, some QA/QC data, the results of field analyses and the results of the laboratory analyses. The field monitoring protocol provided in the first report identified the specific activities involved with each sampling event. The quality control statement in this protocol indicated that a duplicate, a distilled water blank and a pump blank will be run each time samples are taken. However, the first report does not include data for any blanks, and the second report only contains the results of analyses performed on one field blank.

In addition, although the reports do include QA/QC data for inorganic parameters, no QA/QC data are provided for the volatile organic analyses. The volatile organic analyses continue to be reported with a detection limit of 10 ppb. A

1.0 ppb detection limit for groundwater samples is generally not difficult to achieve using gas chromatographic techniques. These lower detection limits are important since the drinking water limits for many of the volatile organic compounds included in USEPA Method 601 and 602 analyses have been set below 10 ppb. Therefore, both the Michigan Department of Natural Resources (MDNR) and the USEPA frequently require the 1.0 ppb detection limit.

Groundwater Flow Direction

Groundwater elevations from both the SMDA and Walker Landfill Sites are summarized in Appendix A, and have been used to establish the contours shown in Figure 1. The groundwater elevation contours indicate that, although flow is primarily to the west, the direction of flow at Walker Landfill is to the northwest, and the flow direction at the SMDA Landfill is to the southwest. As a result, it is expected that the groundwater at the SMDA Landfill should not be significantly impacted by any degradation possibly emanating from the Walker Landfill. The data indicate that the detection of any impact from the Walker Landfill would be limited to those monitoring wells located adjacent to the Walker Landfill, especially MW-K and MW-L.

Organic Data

The organic data are easily summarized since non-detection was reported for all samples from both monitoring events. These data are similar to those reported in the past, as volatile organics have been consistently reported at non-detection in both the groundwater and the leachate from the SMDA Landfill.

There are two factors which suggest the potential for volatile organics to have been present in the groundwater at the site. First, the 1986 Site Inspection Report produced by Ecology and Environment, Inc. indicated the presence of solvents, sludges and paint thinners at the site. Second, the leachate at the SMDA Landfill has been reported to contain significant levels of COD (6500 mg/l), TOC (3107 mg/l), ammonia (810 mg/l) and specific conductance (16,400 umhos/cm). These elevated concentrations in the leachate indicate the presence of chemical constituents leaching from the landfill into the collection system. However, prior analyses of the leachate have resulted in non-detection of volatile organics.

Further, the analytical results of MW-K continue to indicate the presence of significant concentrations of ammonia (1.10 mg/l), TOC (40.6 mg/l), COD (58 mg/l) and specific

conductance (2700 umhos/cm). Once again, the presence of these elevated levels is accompanied by non-detection of volatile organics.

It is possible that the analyses accurately indicate that volatile organics are not present at detection levels in the leachate and groundwater. It is also possible that they are present at low but significant concentrations which are below the laboratory's detection limit of 10 ppb but above the recommended detection limit of 1 ppb. Due to the unavailability of analytical quality control data, it is not possible to assess the data further. It is recommended that future analyses for volatile organics are conducted at a detection limit of 1.0 ppb and that data on surrogate spikes and recoveries are provided.

Inorganic Data

An overview of the inorganic data indicates continued diversity of the water quality at the different monitoring wells. Using the specific conductance as an indicator parameter, the data suggest that the groundwater in the northwest section of both Phase I and Phase II are characterized by relatively higher levels. Monitoring wells F, G, H, K and L were all reported with levels of specific conductance in excess of 1000 umhos/cm, while the groundwater quality at the other monitoring wells were below this level.

In contrast, the monitoring wells with the lowest levels of specific conductance, below 650 umhos/cm, included MW-A, MW-B, MW-C, MW-E, MW-I, MW-M and MW-P. These monitoring wells are generally located in either the southern or eastern sides of Phase I and Phase II. These data are largely in agreement with the concentration pattern which would be predicted from the groundwater elevation contours shown in Figure 1.

The groundwater elevation contours shown in Figure 1 indicate flow direction toward the west and southwest across the SMDA Site. It is expected that if chemical constituents were to leach from the landfill into the groundwater, the levels of these substances would gradually increase as the groundwater migrated across the site. The highest levels would, therefore, be reported in the monitoring wells which are positioned downgradient of fill areas. Based on groundwater flow direction, it is expected that, if chemical constituents were to leach from the landfill, the highest levels would be detected in monitoring wells located on the western and southwestern sides of the landfill. This has generally been the case with the highest levels of conductance reported in MW-F, MW-G, MW-H and MW-K - all situated on the western edge of Phase I and Phase II. Similarly, the lowest levels should be detected in the

monitoring wells located in upgradient positions. This was largely confirmed with MW-A, MW-C, MW-M, MW-B and MW-P all being consistently reported with relatively low levels of conductance. Therefore, there is substantial agreement between the water quality data, and the direction of groundwater flow at the site.

There are some exceptions to this general pattern. For example, although MW-I is located on the western edge of the Phase I portion of the landfill, the levels of specific conductance and most other parameters are relatively low. This monitoring well has frequently been reported with the lowest concentrations for several parameters. An inspection of the boring log for MW-I indicates that a very compact, silty, fine sand was encountered from 30 to 60 feet with the well set at 56.9 feet. These data suggest that the groundwater at MW-I would be less susceptible to impact by leachate from the landfill due to the lower permeability of the screened sediments.

Relatively high levels of specific conductance were also reported at MW-Q while relatively low levels were reported for the adjoining MW-A. These differences may be related to factors specific to each boring which influence the quality of groundwater at each monitoring well.

An extensive discussion of the inorganic groundwater quality data has been provided in the KCS report of August 10, 1987. Because the general nature of the data has not changed since that time, a detailed assessment of these data is not necessary. The prior report concluded that continued elevated levels of several parameters indicates the presence of degraded groundwater at the SMDA site, with the degradation most evident in the northwest sector of each phase of the landfill. This continues to be the case with the water quality correlating well with the direction of groundwater flow.

The data pertaining to groundwater flow direction provides information which is important in identifying possible sources of the degradation. It has been speculated that the high levels of degradation reported in MW-K and MW-L may be attributable to impact from Walker Landfill which is located to the north. The groundwater elevation contours in Figure 1 indicate that degradation from Walker Landfill would migrate in a predominantly northwesterly direction, rather than toward the SMDA Site. As a result, it is expected that if degradation was to leach from Walker Landfill, and the data from MW 1290-1 and MW 1290-2 indicate that this has been the case, this leachate would primarily impact the groundwater to the northwest of the SMDA site.

RECOMMENDATIONS

The existing water quality data indicate the continued presence of degradation in the groundwater at the site which apparently emanates from the SMDA Landfill. These data, plus the groundwater elevation contours, also suggest the possibility that degradation has migrated outside the monitoring zone, possibly to the west and southwest.

It is recommended that additional investigation is conducted to determine if groundwater degradation has migrated down-gradient of the SMDA Landfill. The investigation thus far has identified the presence of the degradation, the probable source and the trajectory of the degradation.

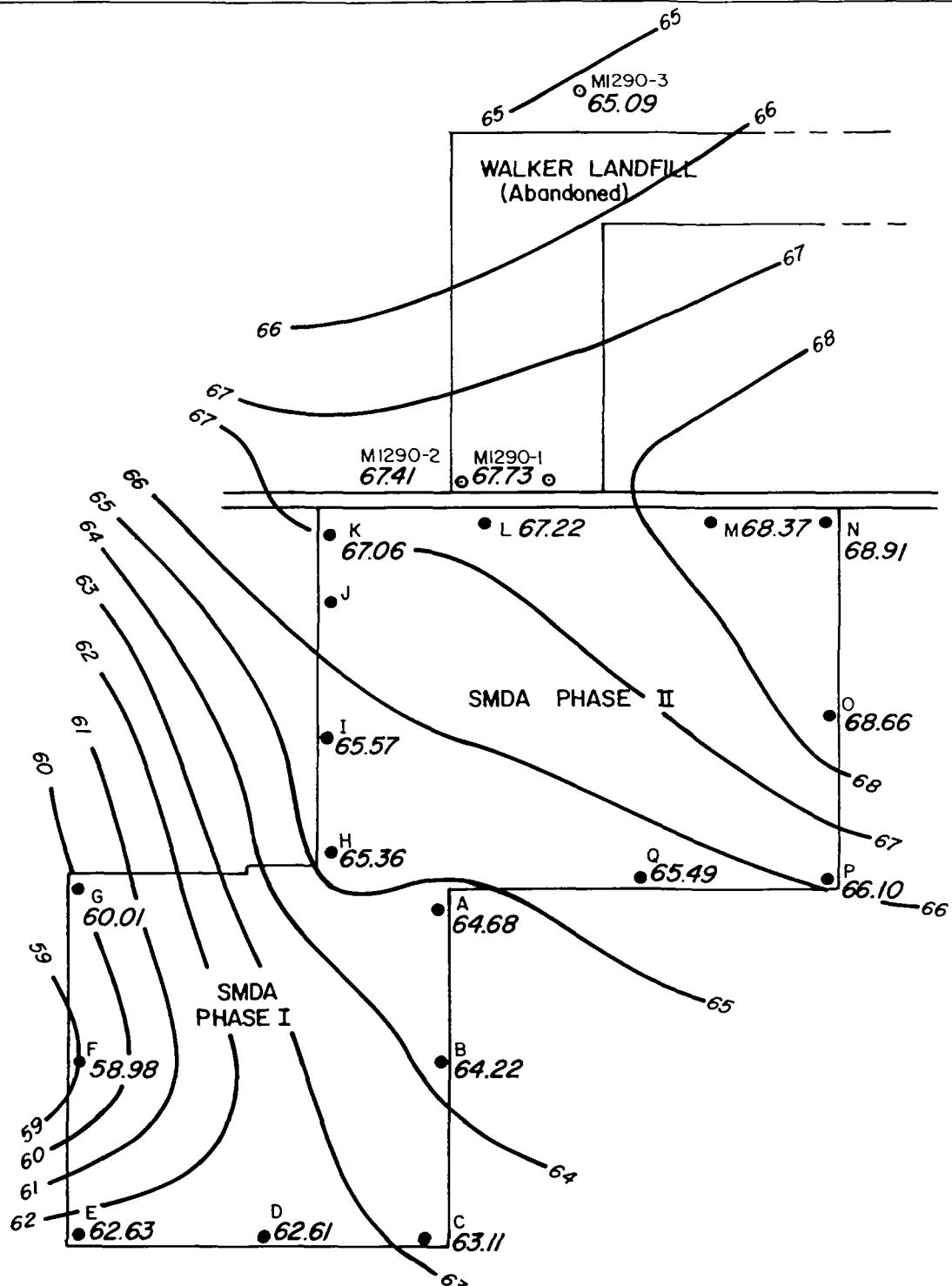
We have previously outlined a process for the tracking of off-site degradation. This is a time-consuming and potentially expensive task which is accomplished by the sampling of monitoring wells installed along the predicted flow path. We would propose to install and sample a monitoring well 500 feet downgradient of the landfill, or at a location dictated by topography and property access. Additional monitoring wells may be required depending upon the resulting water quality. The static groundwater elevation from the new monitoring well would be incorporated into the existing groundwater map to determine the optimal location of any additional monitoring wells, if needed. By

trial-and-error the "plume" of any existing degradation would be defined.

Should questions or comments arise, or if a more detailed proposal for further investigation is desired, please contact our office.

Figure 1

Groundwater Elevation Contour Map
October 29, 1987



10/29/87
Ground Water Elevation Contours
 SOUTH MACOMB DISPOSAL AUTHORITY
 SITE II
 WASHINGTON TOWNSHIP
 MACOMB COUNTY, MICHIGAN

- MI290-2 - WALKER L.F. WELL LOCATION
- A - SMDA WELL LOCATION
- 62.63 - GROUND WATER ELEVATION IN FEET
 RELATIVE TO ARBITRARY DATUM = 100'
- CONTOUR INTERVAL = 1.0'

0 600' 1200'



Appendix A
Static Groundwater Elevations

DATE October 29, 1987

PROJECT #0358-1081 South Macomb Disposal Authority

WELL #	GROUND ELEVATION	CASING HEIGHT	CASING ELEVATION	DEPTH TO WATER	WATER-TABLE ELEVATION
A			101.91	37.23	64.68
B			103.93	39.71	64.22
C			103.03	39.92	63.11
D			100.20	37.59	62.61
E			82.70	20.07	62.63
F			78.15	19.17	58.98
G			75.24	15.23	60.01
H			80.70	15.34	65.36
I			73.90	8.33	65.57
K			87.52	20.46	67.06
L			95.70	28.48	67.22
M			98.68	30.31	68.37
N			94.09	25.18	68.91
O			92.80	24.14	68.66
P			104.24	38.14	66.10
Q			104.60	39.11	65.49
Note:	All wells are surveyed from M-1290-2 with an arbitrary elevation of 100.00.				

DATE October 29, 1987

PROJECT #0358-1081 South Macomb Disposal Authority

WELL #	GROUND ELEVATION	CASING HEIGHT	CASING ELEVATION	DEPTH TO WATER	WATER-TABLE ELEVATION
M-1290-1			97.81	30.08	67.73
M-1290-2			100.00	32.59	67.41
M-1290-3			73.11	8.02	65.09

Appendix B

Results of Analyses Performed on
Samples Collected July 17, 1987 and
October 29, 1987

July 17, 1987



Analytic & Biological Laboratories, Inc.

29079 FORD ROAD ■ GARDEN CITY, MICHIGAN 48135 ■ PHONE: (313) 422-7474 ■ TELEX: 234080

10-23-87

SAMPLE NO: 7688
PAGE 1

SOUTH MACOMB DISPOSAL AUT
155 S. RAWLES
PO BOX 67
ROMEO, MI 48065

SAMPLE DESCRIPTION: A ABL 5254

TAKEN RECEIVED
07-20-87

Cadmium, Diss.	<0.01	mg/l
Calcium, Diss.	73.77	mg/l
Chromium, Diss.	<0.01	mg/l
Iron, Diss.	0.014	mg/l
Lead, Diss.	<0.05	mg/l
Magnesium, Diss.	26.53	mg/l
-Alkalinity	135.1	mg/l
-Chloride	40.13	mg/l
-C.O.D.	16.6	mg/l
Conductivity	420	umhos/cm
-Nitrogen, Ammonia	0.24	mg/l
-Nitrogen, Nitrate	0.2752	mg/l
-Nitrogen, Nitrite	0.4733	mg/l
pH	7.63	units
-Phenols	0.011	mg/l
-Sodium, Diss.	9.753	mg/l
-Sulfate	26.65	mg/l
-Total Organic Carbon	6.541	mg/l

ANALYTIC & BIOLOGICAL LABORATORIES, INC.

Francis B. Mc Laughlin, FAIC
Director of Laboratories
FBM/sjk

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UNITED STATES FOOD AND DRUG METHODOLOGY
UNITED STATES NUCLEAR REGULATORY COMMISSION
AMERICAN COUNCIL OF INDEPENDENT LABORATORIES
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AMERICAN SOCIETY FOR MICROBIOLOGY
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ASSOCIATION OF OFFICIAL ANALYTICAL CHEMISTS



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10-23-87

SAMPLE NO: 7688
PAGE 2

SOUTH MACOMB DISPOSAL AUT
155 S. RAWLES
PO BOX 67
ROMEO, MI 48065

SAMPLE DESCRIPTION: A ABL 5254

TAKEN RECEIVED
07-20-87

PURGEABLE HALOCARBONS-601 .

1,2-Dichlorobenzene	<10.0	ppb
1,3-Dichlorobenzene	<10.0	ppb
1,4-Dichlorobenzene	<10.0	ppb
Bromoform	<10.0	ppb
Carbon Tetrachloride	<10.0	ppb
Chlorobenzene	<10.0	ppb
Chloroethane	<10.0	ppb
2-Chloroethylvinyl Ether	<10.0	ppb
Chloroform	<10.0	ppb
Dichlorodifluoromethane	<10.0	ppb
1,1-Dichloroethane	<10.0	ppb
1,2-Dichloroethane	<10.0	ppb
1,1-Dichloroethylene	<10.0	ppb
1,2-Dichloropropane	<10.0	ppb
Methylene Chloride	<10.0	ppb
1,1,2,2-Tetrachloroethane	<10.0	ppb

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ROMEO, MI 48065

SAMPLE DESCRIPTION: A ABL 5254

TAKEN RECEIVED
07-20-87

Tetrachloroethene	<10.0	ppb
1,1,1-Trichloroethane	<10.0	ppb
1,1,2-Trichloroethane	<10.0	ppb
Trichloroethene	<10.0	ppb
Trichlorofluoromethane	<10.0	ppb
Vinyl Chloride	<10.0	ppb
Bromodichloromethane	<10.0	ppb
Bromomethane	<10.0	ppb
Chloromethane	<10.0	ppb
Dibromochloromethane	<10.0	ppb
trans-1,2-Dichloroethene	<10.0	ppb
cis-1,3-Dichloropropene	<10.0	ppb
trans-1,3-Dichloropropene	<10.0	ppb
PURGEABLE AROMATICS - 602	.	.
1,2,-Dichlorobenzene	<10.0	ppb
1,3,-Dichlorobenzene	<10.0	ppb
1,4,-Dichlorobenzene	<10.0	ppb

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ROMEO, MI 48065

SAMPLE DESCRIPTION: A ABL 5254

TAKEN RECEIVED
07-20-87

Benzene	<10.0	ppb
Chlorobenzene	<10.0	ppb
Ethylbenzene	<10.0	ppb
Toluene	<10.0	ppb

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10-23-87

SAMPLE NO: 7689
PAGE 5

SOUTH MACOMB DISPOSAL AUT
155 S. RAWLES
PO BOX 67
ROMEO, MI 48065

SAMPLE DESCRIPTION: B

TAKEN RECEIVED
07-20-87

Cadmium, Diss.	<0.01	mg/l
Calcium, Diss.	80.65	mg/l
Chromium, Diss.	<0.01	mg/l
Iron, Diss.	0.056	mg/l
Lead, Diss.	<0.05	mg/l
Magnesium, Diss.	30.77	mg/l
Alkalinity	225.7	mg/l
Chloride	63.65	mg/l
C.O.D.	22.6	mg/l
Conductivity	515	umhos/cm
Nitrogen, Ammonia	0.40	mg/l
Nitrogen, Nitrate	0.2038	mg/l
Nitrogen, Nitrite	0.1763	mg/l
pH	7.12	units
Phenols	<0.01	mg/l
Sodium, Diss.	34.15	mg/l
Sulfate	61.35	mg/l
Total Organic Carbon	5.538	mg/l

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155 S. RAWLES
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SAMPLE DESCRIPTION: B

TAKEN RECEIVED
07-20-87

PURGEABLE HALOCARBONS-601 .

1,2-Dichlorobenzene	<10.0	ppb
1,3-Dichlorobenzene	<10.0	ppb
1,4-Dichlorobenzene	<10.0	ppb
Bromoform	<10.0	ppb
Carbon Tetrachloride	<10.0	ppb
Chlorobenzene	<10.0	ppb
Chloroethane	<10.0	ppb
2-Chloroethylvinyl Ether	<10.0	ppb
Chloroform	<10.0	ppb
Dichlorodifluoromethane	<10.0	ppb
1,1-Dichloroethane	<10.0	ppb
1,2-Dichloroethane	<10.0	ppb
1,1-Dichloroethylene	<10.0	ppb
1,2-Dichloropropane	<10.0	ppb
Methylene Chloride	<10.0	ppb
1,1,2,2-Tetrachloroethane	<10.0	ppb

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1,1,2-Trichloroethane	<10.0	ppb
Trichloroethene	<10.0	ppb
Trichlorofluoromethane	<10.0	ppb
Vinyl Chloride	<10.0	ppb
Bromodichloromethane	<10.0	ppb
Bromomethane	<10.0	ppb
Chloromethane	<10.0	ppb
Dibromochloromethane	<10.0	ppb
trans-1,2-Dichloroethene	<10.0	ppb
cis-1,3-Dichloropropene	<10.0	ppb
trans-1,3-Dichloropropene	<10.0	ppb
.	.	.
PURGEABLE AROMATICS - 602	.	.
1,2,-Dichlorobenzene	<10.0	ppb
1,3,-Dichlorobenzene	<10.0	ppb
1,4,-Dichlorobenzene	<10.0	ppb

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10-23-87

SAMPLE NO: 7689
PAGE 8

SOUTH MACOMB DISPOSAL AUT
155 S. RAWLES
PO BOX 67
ROMEO, MI 48065

SAMPLE DESCRIPTION: B

TAKEN RECEIVED
07-20-87

Benzene	<10.0	ppb
Chlorobenzene	<10.0	ppb
Ethylbenzene	<10.0	ppb
Toluene	<10.0	ppb

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10-23-87

SAMPLE NO.: 7690
PAGE 9

SOUTH MACOMB DISPOSAL AUT
155 S. RAWLES
PO BOX 67
ROMEO, MI 48065

SAMPLE DESCRIPTION: C

TAKEN RECEIVED
07-20-87

Cadmium, Diss.	<0.01	mg/l
Calcium, Diss.	51.56	mg/l
Chromium, Diss.	<0.01	mg/l
Iron, Diss.	0.030	mg/l
Lead, Diss.	<0.05	mg/l
Magnesium, Diss.	24.90	mg/l
Alkalinity	210.9	mg/l
Chloride	48.04	mg/l
C.O.D.	25.3	mg/l
Conductivity	350	umhos/cm
Nitrogen, Ammonia	0.24	mg/l
Nitrogen, Nitrate	0.3095	mg/l
Nitrogen, Nitrite	0.4514	mg/l
pH	7.02	units
Phenols	<0.01	mg/l
Sodium, Diss.	6.861	mg/l
Sulfate	2.377	mg/l
Total Organic Carbon	6.856	mg/l

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UNITED STATES FOOD AND DRUG METHODOLOGY
UNITED STATES NUCLEAR REGULATORY COMMISSION
AMERICAN COUNCIL OF INDEPENDENT LABORATORIES
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DIPLOMAT — AMERICAN BOARD OF BIOANALYSTS
AMERICAN CHEMICAL SOCIETY
AMERICAN SOCIETY FOR MICROBIOLOGY
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PAGE 10

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ROMEO, MI 48065

SAMPLE DESCRIPTION: C

TAKEN RECEIVED
07-20-87

PURGEABLE HALOCARBONS-601 .

1,2-Dichlorobenzene	<10.0	ppb
1,3-Dichlorobenzene	<10.0	ppb
1,4-Dichlorobenzene	<10.0	ppb
Bromoform	<10.0	ppb
Carbon Tetrachloride	<10.0	ppb
Chlorobenzene	<10.0	ppb
Chloroethane	<10.0	ppb
2-Chloroethylvinyl Ether	<10.0	ppb
Chloroform	<10.0	ppb
Dichlorodifluoromethane	<10.0	ppb
1,1-Dichloroethane	<10.0	ppb
1,2-Dichloroethane	<10.0	ppb
1,1-Dichloroethylene	<10.0	ppb
1,2-Dichloropropane	<10.0	ppb
Methylene Chloride	<10.0	ppb
1,1,2,2-Tetrachloroethane	<10.0	ppb

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PAGE 11

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PO BOX 67
ROMEO, MI 48065

SAMPLE DESCRIPTION: C

TAKEN RECEIVED
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Tetrachloroethene	<10.0	ppb
1,1,1-Trichloroethane	<10.0	ppb
1,1,2-Trichloroethane	<10.0	ppb
Trichloroethene	<10.0	ppb
Trichlorofluoromethane	<10.0	ppb
Vinyl Chloride	<10.0	ppb
Bromodichloromethane	<10.0	ppb
Bromomethane	<10.0	ppb
Chloromethane	<10.0	ppb
Dibromochloromethane	<10.0	ppb
trans-1,2-Dichloroethene	<10.0	ppb
cis-1,3-Dichloropropene	<10.0	ppb
trans-1,3-Dichloropropene	<10.0	ppb
.	.	.
PURGEABLE AROMATICS - 602	.	.
1,2,-Dichlorobenzene	<10.0	ppb
1,3,-Dichlorobenzene	<10.0	ppb
1,4,-Dichlorobenzene	<10.0	ppb

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PAGE 12

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155 S. RAWLES
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ROMEO, MI 48065

SAMPLE DESCRIPTION: C

TAKEN RECEIVED
07-20-87

Benzene	<10.0	ppb
Chlorobenzene	<10.0	ppb
Ethylbenzene	<10.0	ppb
Toluene	<10.0	ppb

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155 S. RAWLES
PO BOX 67
ROMEO, MI 48065

SAMPLE DESCRIPTION: D

TAKEN RECEIVED
07-20-87

Cadmium, Diss.	<0.01	mg/l
Calcium, Diss.	136.1	mg/l
Chromium, Diss.	<0.01	mg/l
Iron, Diss.	0.042	mg/l
Lead, Diss.	<0.05	mg/l
Magnesium, Diss.	40.95	mg/l
Alkalinity	175.5	mg/l
Chloride	79.55	mg/l
C.O.D.	38.6	mg/l
Conductivity	720	umhos/cm
Nitrogen, Ammonia	0.44	mg/l
Nitrogen, Nitrate	0.2159	mg/l
Nitrogen, Nitrite	0.3125	mg/l
pH	6.69	units
Phenols	<0.01	mg/l
Sodium, Diss.	23.02	mg/l
Sulfate	46.42	mg/l
Total Organic Carbon	6.734	mg/l

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SAMPLE NO: 7691
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SOUTH MACOMB DISPOSAL AUT
155 S. RAWLES
PO BOX 67
ROMEO, MI 48065

SAMPLE DESCRIPTION: D

TAKEN RECEIVED
07-20-87

PURGEABLE HALOCARBONS-601 .

.	.	.
1,2-Dichlorobenzene	<10.0	ppb
1,3-Dichlorobenzene	<10.0	ppb
1,4-Dichlorobenzene	<10.0	ppb
Bromoform	<10.0	ppb
Carbon Tetrachloride	<10.0	ppb
Chlorobenzene	<10.0	ppb
Chloroethane	<10.0	ppb
2-Chloroethylvinyl Ether	<10.0	ppb
Chloroform	<10.0	ppb
Dichlorodifluoromethane	<10.0	ppb
1,1-Dichloroethane	<10.0	ppb
1,2-Dichloroethane	<10.0	ppb
1,1-Dichloroethylene	<10.0	ppb
1,2-Dichloropropane	<10.0	ppb
Methylene Chloride	<10.0	ppb
1,1,2,2-Tetrachloroethane	<10.0	ppb

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155 S. RAWLES
PO BOX 67
ROMEO, MI 48065

SAMPLE DESCRIPTION: D

TAKEN RECEIVED
07-20-87

Tetrachloroethene	<10.0	ppb
1,1,1-Trichloroethane	<10.0	ppb
1,1,2-Trichloroethane	<10.0	ppb
Trichloroethene	<10.0	ppb
Trichlorofluoromethane	<10.0	ppb
Vinyl Chloride	<10.0	ppb
Bromodichloromethane	<10.0	ppb
Bromomethane	<10.0	ppb
Chloromethane	<10.0	ppb
Dibromochloromethane	<10.0	ppb
trans-1,2-Dichloroethene	<10.0	ppb
cis-1,3-Dichloropropene	<10.0	ppb
trans-1,3-Dichloropropene	<10.0	ppb
.	.	.
PURGEABLE AROMATICS - 602	.	.
1,2,-Dichlorobenzene	<10.0	ppb
1,3,-Dichlorobenzene	<10.0	ppb
1,4,-Dichlorobenzene	<10.0	ppb

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PAGE 16

SOUTH MACOMB DISPOSAL AUT
155 S. RAWLES
PO BOX 67
ROMEO, MI 48065

SAMPLE DESCRIPTION: D

TAKEN RECEIVED
07-20-87

Benzene	<10.0	ppb
Chlorobenzene	<10.0	ppb
Ethylbenzene	<10.0	ppb
Toluene	<10.0	ppb

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SAMPLE NO: 7692
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SOUTH MACOMB DISPOSAL AUT
155 S. RAWLES
PO BOX 67
ROMEO, MI 48065

SAMPLE DESCRIPTION: E

TAKEN RECEIVED
07-20-87

Cadmium, Diss.	<0.01	mg/l
Calcium, Diss.	89.61	mg/l
Chromium, Diss.	<0.01	mg/l
Iron, Diss.	0.012	mg/l
Lead, Diss.	<0.05	mg/l
Magnesium, Diss.	27.43	mg/l
Alkalinity	150.0	mg/l
Chloride	48.83	mg/l
C.O.D.	22.6	mg/l
Conductivity	520	umhos/cm
Nitrogen, Ammonia	0.14	mg/l
Nitrogen, Nitrate	0.2650	mg/l
Nitrogen, Nitrite	0.3414	mg/l
pH	7.10	units
Phenols	0.028	mg/l
Sodium, Diss.	11.63	mg/l
Sulfate	40.10	mg/l
Total Organic Carbon	7.374	mg/l

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PAGE 18

SOUTH MACOMB DISPOSAL AUT
155 S. RAWLES
PO BOX 67
ROMEO, MI 48065

SAMPLE DESCRIPTION: E

TAKEN RECEIVED
07-20-87

PURGEABLE HALOCARBONS-601 .

.	.	.
1,2-Dichlorobenzene	<10.0	ppb
1,3-Dichlorobenzene	<10.0	ppb
1,4-Dichlorobenzene	<10.0	ppb
Bromoform	<10.0	ppb
Carbon Tetrachloride	<10.0	ppb
Chlorobenzene	<10.0	ppb
Chloroethane	<10.0	ppb
2-Chloroethylvinyl Ether	<10.0	ppb
Chloroform	<10.0	ppb
Dichlorodifluoromethane	<10.0	ppb
1,1-Dichloroethane	<10.0	ppb
1,2-Dichloroethane	<10.0	ppb
1,1-Dichloroethylene	<10.0	ppb
1,2-Dichloropropane	<10.0	ppb
Methylene Chloride	<10.0	ppb
1,1,2,2-Tetrachloroethane	<10.0	ppb

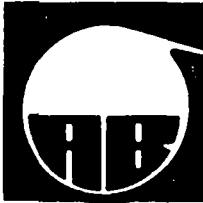
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SAMPLE NO: 7692
PAGE 19

SOUTH MACOMB DISPOSAL AUT
155 S. RAWLES
PO BOX 67
ROMEO, MI 48065

SAMPLE DESCRIPTION: E

TAKEN RECEIVED
07-20-87

Tetrachloroethene	<10.0	ppb
1,1,1-Trichloroethane	<10.0	ppb
1,1,2-Trichloroethane	<10.0	ppb
Trichloroethene	<10.0	ppb
Trichlorofluoromethane	<10.0	ppb
Vinyl Chloride	<10.0	ppb
Bromodichloromethane	<10.0	ppb
Bromomethane	<10.0	ppb
Chloromethane	<10.0	ppb
Dibromochloromethane	<10.0	ppb
trans-1,2-Dichloroethene	<10.0	ppb
cis-1,3-Dichloropropene	<10.0	ppb
trans-1,3-Dichloropropene	<10.0	ppb
PURGEABLE AROMATICS - 602	.	.
1,2,-Dichlorobenzene	<10.0	ppb
1,3,-Dichlorobenzene	<10.0	ppb
1,4,-Dichlorobenzene	<10.0	ppb

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PAGE 20

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Benzene	<10.0	ppb
Chlorobenzene	<10.0	ppb
Ethylbenzene	<10.0	ppb
Toluene	<10.0	ppb

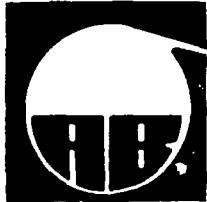
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PAGE 21

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155 S. RAWLES
PO BOX 67
ROMEO, MI 48065

SAMPLE DESCRIPTION: F

TAKEN RECEIVED
07-20-87

Cadmium, Diss.	<0.01	mg/l
Calcium, Diss.	181.9	mg/l
Chromium, Diss.	<0.01	mg/l
Iron, Diss.	0.163	mg/l
Lead, Diss.	<0.05	mg/l
Magnesium, Diss.	74.90	mg/l
Alkalinity	305.3	mg/l
Chloride	154.3	mg/l
C.O.D.	58.6	mg/l
Conductivity	1,200	umhos/cm
Nitrogen, Ammonia	6.00	mg/l
Nitrogen, Nitrate	0.2619	mg/l
Nitrogen, Nitrite	0.4047	mg/l
pH	6.77	units
Phenols	0.026	mg/l
Sodium, Diss.	53.01	mg/l
Sulfate	66.10	mg/l
Total Organic Carbon	13.18	mg/l

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10-23-87

SAMPLE NO.: 7693
PAGE 22

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155 S. RAWLES
PO BOX 67
ROMEO, MI 48065

SAMPLE DESCRIPTION: F

TAKEN RECEIVED
07-20-87

PURGEABLE HALOCARBONS-601 .

.	.	
1,2-Dichlorobenzene	<10.0	ppb
1,3-Dichlorobenzene	<10.0	ppb
1,4-Dichlorobenzene	<10.0	ppb
Bromoform	<10.0	ppb
Carbon Tetrachloride	<10.0	ppb
Chlorobenzene	<10.0	ppb
Chloroethane	<10.0	ppb
2-Chloroethylvinyl Ether	<10.0	ppb
Chloroform	<10.0	ppb
Dichlorodifluoromethane	<10.0	ppb
1,1-Dichloroethane	<10.0	ppb
1,2-Dichloroethane	<10.0	ppb
1,1-Dichloroethylene	<10.0	ppb
1,2-Dichloropropane	<10.0	ppb
Methylene Chloride	<10.0	ppb
1,1,2,2-Tetrachloroethane	<10.0	ppb

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10-23-87

SAMPLE NO: 7693
PAGE 23

SOUTH MACOMB DISPOSAL AUT
155 S. RAWLES
PO BOX 67
ROMEO, MI 48065

SAMPLE DESCRIPTION: F

TAKEN RECEIVED
07-20-87

Tetrachloroethene	<10.0	ppb
1,1,1-Trichloroethane	<10.0	ppb
1,1,2-Trichloroethane	<10.0	ppb
Trichloroethene	<10.0	ppb
Trichlorofluoromethane	<10.0	ppb
Vinyl Chloride	<10.0	ppb
Bromodichloromethane	<10.0	ppb
Bromomethane	<10.0	ppb
Chloromethane	<10.0	ppb
Dibromochloromethane	<10.0	ppb
trans-1,2-Dichloroethene	<10.0	ppb
cis-1,3-Dichloropropene	<10.0	ppb
trans-1,3-Dichloropropene	<10.0	ppb
.	.	.
PURGEABLE AROMATICS - 602	.	.
1,2,-Dichlorobenzene	<10.0	ppb
1,3,-Dichlorobenzene	<10.0	ppb
1,4,-Dichlorobenzene	<10.0	ppb

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155 S. RAWLES
PO BOX 67
ROMEO, MI 48065

SAMPLE DESCRIPTION: F

TAKEN RECEIVED
07-20-87

Benzene	<10.0	ppb
Chlorobenzene	<10.0	ppb
Ethylbenzene	<10.0	ppb
Toluene	<10.0	ppb

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PO BOX 67
ROMEO, MI 48065

SAMPLE DESCRIPTION: G

TAKEN RECEIVED
07-20-87

Cadmium, Diss.	<0.01	mg/l
Calcium, Diss.	212.5	mg/l
Chromium, Diss.	<0.01	mg/l
Iron, Diss.	0.021	mg/l
Lead, Diss.	<0.05	mg/l
Magnesium, Diss.	51.11	mg/l
Alkalinity	209.8	mg/l
Chloride	28.04	mg/l
C.O.D.	24.0	mg/l
Conductivity	890	umhos/cm
Nitrogen, Ammonia	1.05	mg/l
Nitrogen, Nitrate	0.2984	mg/l
Nitrogen, Nitrite	0.4052	mg/l
pH	6.83	units
Phenols	0.014	mg/l
Sodium, Diss.	16.03	mg/l
Sulfate	100.3	mg/l
Total Organic Carbon	11.11	mg/l

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ROMEO, MI 48065

SAMPLE DESCRIPTION: G

TAKEN RECEIVED
07-20-87

PURGEABLE HALOCARBONS-601 .

1,2-Dichlorobenzene	<10.0	ppb
1,3-Dichlorobenzene	<10.0	ppb
1,4-Dichlorobenzene	<10.0	ppb
Bromoform	<10.0	ppb
Carbon Tetrachloride	<10.0	ppb
Chlorobenzene	<10.0	ppb
Chloroethane	<10.0	ppb
2-Chloroethylvinyl Ether	<10.0	ppb
Chloroform	<10.0	ppb
Dichlorodifluoromethane	<10.0	ppb
1,1-Dichloroethane	<10.0	ppb
1,2-Dichloroethane	<10.0	ppb
1,1-Dichloroethylene	<10.0	ppb
1,2-Dichloropropane	<10.0	ppb
Methylene Chloride	<10.0	ppb
1,1,2,2-Tetrachloroethane	<10.0	ppb

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PAGE 27

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155 S. RAWLES
PO BOX 67
ROMEO, MI 48065

SAMPLE DESCRIPTION: G

TAKEN RECEIVED
07-20-87

Tetrachloroethene	<10.0	ppb
1,1,1-Trichloroethane	<10.0	ppb
1,1,2-Trichloroethane	<10.0	ppb
Trichloroethene	<10.0	ppb
Trichlorofluoromethane	<10.0	ppb
Vinyl Chloride	<10.0	ppb
Bromodichloromethane	<10.0	ppb
Bromomethane	<10.0	ppb
Chloromethane	<10.0	ppb
Dibromochloromethane	<10.0	ppb
trans-1,2-Dichloroethene	<10.0	ppb
cis-1,3-Dichloropropene	<10.0	ppb
trans-1,3-Dichloropropene	<10.0	ppb
.	.	.
PURGEABLE AROMATICS - 602	.	.
1,2,-Dichlorobenzene	<10.0	ppb
1,3,-Dichlorobenzene	<10.0	ppb
1,4,-Dichlorobenzene	<10.0	ppb

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SAMPLE NO: 7694
PAGE 28

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155 S. RAWLES
PO BOX 67
ROMEO, MI 48065

SAMPLE DESCRIPTION: G

TAKEN RECEIVED
07-20-87

Benzene	<10.0	ppb
Chlorobenzene	<10.0	ppb
Ethylbenzene	<10.0	ppb
Toluene	<10.0	ppb

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PO BOX 67
ROMEO, MI 48065

SAMPLE DESCRIPTION: H

TAKEN RECEIVED
07-20-87

Cadmium, Diss.	<0.01	mg/l
Calcium, Diss.	217.9	mg/l
Chromium, Diss.	<0.01	mg/l
Iron, Diss.	0.016	mg/l
Lead, Diss.	<0.05	mg/l
Magnesium, Diss.	90.65	mg/l
Alkalinity	416.6	mg/l
Chloride	100.2	mg/l
C.O.D.	32.0	mg/l
Conductivity	1,300	umhos/cm
Nitrogen, Ammonia	0.74	mg/l
Nitrogen, Nitrate	0.2134	mg/l
Nitrogen, Nitrite	0.3244	mg/l
pH	6.82	units
Phenols	<0.01	mg/l
Sodium, Diss.	39.56	mg/l
Sulfate	103.8	mg/l
Total Organic Carbon	9.804	mg/l

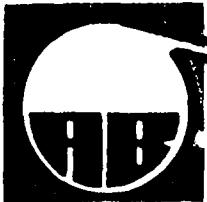
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PAGE 30

SOUTH MACOMB DISPOSAL AUT
155 S. RAWLES
PO BOX 67
ROMEO, MI 48065

SAMPLE DESCRIPTION: H

TAKEN RECEIVED
07-20-87

PURGEABLE HALOCARBONS-601 .

1,2-Dichlorobenzene	<10.0	ppb
1,3-Dichlorobenzene	<10.0	ppb
1,4-Dichlorobenzene	<10.0	ppb
Bromoform	<10.0	ppb
Carbon Tetrachloride	<10.0	ppb
Chlorobenzene	<10.0	ppb
Chloroethane	<10.0	ppb
2-Chloroethylvinyl Ether	<10.0	ppb
Chloroform	<10.0	ppb
Dichlorodifluoromethane	<10.0	ppb
1,1-Dichloroethane	<10.0	ppb
1,2-Dichloroethane	<10.0	ppb
1,1-Dichloroethylene	<10.0	ppb
1,2-Dichloropropane	<10.0	ppb
Methylene Chloride	<10.0	ppb
1,1,2,2-Tetrachloroethane	<10.0	ppb

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SAMPLE NO: 7695
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155 S. RAWLES
PO BOX 67
ROMEO, MI 48065

SAMPLE DESCRIPTION: H

TAKEN RECEIVED
07-20-87

Tetrachloroethene	<10.0	ppb
1,1,1-Trichloroethane	<10.0	ppb
1,1,2-Trichloroethane	<10.0	ppb
Trichloroethene	<10.0	ppb
Trichlorofluoromethane	<10.0	ppb
Vinyl Chloride	<10.0	ppb
Bromodichloromethane	<10.0	ppb
Bromomethane	<10.0	ppb
Chloromethane	<10.0	ppb
Dibromochloromethane	<10.0	ppb
trans-1,2-Dichloroethene	<10.0	ppb
cis-1,3-Dichloropropene	<10.0	ppb
trans-1,3-Dichloropropene	<10.0	ppb
.	.	.
PURGEABLE AROMATICS - 602	.	.
1,2,-Dichlorobenzene	<10.0	ppb
1,3,-Dichlorobenzene	<10.0	ppb
1,4,-Dichlorobenzene	<10.0	ppb

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SAMPLE DESCRIPTION: H

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Benzene	<10.0	ppb
Chlorobenzene	<10.0	ppb
Ethylbenzene	<10.0	ppb
Toluene	<10.0	ppb

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PAGE 33

SOUTH MACOMB DISPOSAL AUT
155 S. RAWLES
PO BOX 67
ROMEO, MI 48065

SAMPLE DESCRIPTION: I

TAKEN RECEIVED
07-20-87

Cadmium, Diss.	<0.01	mg/l
Calcium, Diss.	81.12	mg/l
Chromium, Diss.	0.012	mg/l
Iron, Diss.	0.233	mg/l
Lead, Diss.	<0.05	mg/l
Magnesium, Diss.	24.82	mg/l
Alkalinity	243.4	mg/l
Chloride	14.75	mg/l
C.O.D.	6.6	mg/l
Conductivity	430	umhos/cm
Nitrogen, Ammonia	0.44	mg/l
Nitrogen, Nitrate	0.1832	mg/l
Nitrogen, Nitrite	0.2735	mg/l
pH	7.21	units
Phenols	<0.01	mg/l
Sodium, Diss.	9.059	mg/l
Sulfate	47.06	mg/l
Total Organic Carbon	6.807	mg/l

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PAGE 34

SOUTH MACOMB DISPOSAL AUT
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SAMPLE DESCRIPTION: I

TAKEN RECEIVED
07-20-87

PURGEABLE HALOCARBONS-601 .

1,2-Dichlorobenzene	<10.0	ppb
1,3-Dichlorobenzene	<10.0	ppb
1,4-Dichlorobenzene	<10.0	ppb
Bromoform	<10.0	ppb
Carbon Tetrachloride	<10.0	ppb
Chlorobenzene	<10.0	ppb
Chloroethane	<10.0	ppb
2-Chloroethylvinyl Ether	<10.0	ppb
Chloroform	<10.0	ppb
Dichlorodifluoromethane	<10.0	ppb
1,1-Dichloroethane	<10.0	ppb
1,2-Dichloroethane	<10.0	ppb
1,1-Dichloroethylene	<10.0	ppb
1,2-Dichloropropane	<10.0	ppb
Methylene Chloride	<10.0	ppb
1,1,2,2-Tetrachloroethane	<10.0	ppb

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PAGE 35

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ROMEO, MI 48065

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TAKEN RECEIVED
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Tetrachloroethene	<10.0	ppb
1,1,1-Trichloroethane	<10.0	ppb
1,1,2-Trichloroethane	<10.0	ppb
Trichloroethene	<10.0	ppb
Trichlorofluoromethane	<10.0	ppb
Vinyl Chloride	<10.0	ppb
Bromodichloromethane	<10.0	ppb
Bromomethane	<10.0	ppb
Chloromethane	<10.0	ppb
Dibromochloromethane	<10.0	ppb
trans-1,2-Dichloroethene	<10.0	ppb
cis-1,3-Dichloropropene	<10.0	ppb
trans-1,3-Dichloropropene	<10.0	ppb
.	.	.
PURGEABLE AROMATICS - 602	.	.
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1,3,-Dichlorobenzene	<10.0	ppb
1,4,-Dichlorobenzene	<10.0	ppb

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DIPLOMAT — AMERICAN BOARD OF BIOANALYSTS
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AMERICAN SOCIETY FOR MICROBIOLOGY
UNION INTERNATIONALE des LABORATOIRES INDEPENDANTS
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**Analytic & Biological
Laboratories, Inc.**

29079 FORD ROAD ■ GARDEN CITY, MICHIGAN 48135 ■ PHONE: (313) 422-7474 ■ TELEX: 234080

10-23-87

SAMPLE NO: 7696
PAGE 36

SOUTH MACOMB DISPOSAL AUT
155 S. RAWLES
PO BOX 67
ROMEO, MI 48065

SAMPLE DESCRIPTION: I

TAKEN RECEIVED
07-20-87

Benzene	<10.0	ppb
Chlorobenzene	<10.0	ppb
Ethylbenzene	<10.0	ppb
Toluene	<10.0	ppb

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FBM/sjk**

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155 S. RAWLES
PO BOX 67
ROMEO, MI 48065

SAMPLE DESCRIPTION: K

TAKEN RECEIVED
07-20-87

Cadmium, Diss.	<0.01	mg/l
Calcium, Diss.	345.4	mg/l
Chromium, Diss.	<0.01	mg/l
Iron, Diss.	0.018	mg/l
Lead, Diss.	<0.05	mg/l
Magnesium, Diss.	125.5	mg/l
Alkalinity	219.2	mg/l
Chloride	337.1	mg/l
C.O.D.	58.0	mg/l
Conductivity	2,700	umhos/cm
Nitrogen, Ammonia	1.10	mg/l
Nitrogen, Nitrate	0.2695	mg/l
Nitrogen, Nitrite	0.3331	mg/l
pH	6.81	units
Phenols	<0.01	mg/l
Sodium, Diss.	348.5	mg/l
Sulfate	795.4	mg/l
Total Organic Carbon	40.63	mg/l

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PAGE 38

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ROMEO, MI 48065

SAMPLE DESCRIPTION: K

TAKEN RECEIVED
07-20-87

PURGEABLE HALOCARBONS-601

.	.	.
1,2-Dichlorobenzene	<10.0	ppb
1,3-Dichlorobenzene	<10.0	ppb
1,4-Dichlorobenzene	<10.0	ppb
Bromoform	<10.0	ppb
Carbon Tetrachloride	<10.0	ppb
Chlorobenzene	<10.0	ppb
Chloroethane	<10.0	ppb
2-Chloroethylvinyl Ether	<10.0	ppb
Chloroform	<10.0	ppb
Dichlorodifluoromethane	<10.0	ppb
1,1-Dichloroethane	<10.0	ppb
1,2-Dichloroethane	<10.0	ppb
1,1-Dichloroethylene	<10.0	ppb
1,2-Dichloropropane	<10.0	ppb
Methylene Chloride	<10.0	ppb
1,1,2,2-Tetrachloroethane	<10.0	ppb

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PAGE 39

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155 S. RAWLES
PO BOX 67
ROMEO, MI 48065

SAMPLE DESCRIPTION: K

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07-20-87

Tetrachloroethene	<10.0	ppb
1,1,1-Trichloroethane	<10.0	ppb
1,1,2-Trichloroethane	<10.0	ppb
Trichloroethene	<10.0	ppb
Trichlorofluoromethane	<10.0	ppb
Vinyl Chloride	<10.0	ppb
Bromodichloromethane	<10.0	ppb
Bromomethane	<10.0	ppb
Chloromethane	<10.0	ppb
Dibromochloromethane	<10.0	ppb
trans-1,2-Dichloroethene	<10.0	ppb
cis-1,3-Dichloropropene	<10.0	ppb
trans-1,3-Dichloropropene	<10.0	ppb
.	.	.
PURGEABLE AROMATICS - 602	.	.
1,2,-Dichlorobenzene	<10.0	ppb
1,3,-Dichlorobenzene	<10.0	ppb
1,4,-Dichlorobenzene	<10.0	ppb

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PAGE 40

SOUTH MACOMB DISPOSAL AUT
155 S. RAWLES
PO BOX 67
ROMEO, MI 48065

SAMPLE DESCRIPTION: K

TAKEN RECEIVED
07-20-87

Benzene	<10.0	ppb
Chlorobenzene	<10.0	ppb
Ethylbenzene	<10.0	ppb
Toluene	<10.0	ppb

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SAMPLE NO: 7698
PAGE 41

SOUTH MACOMB DISPOSAL AUT
155 S. RAWLES
PO BOX 67
ROMEO, MI 48065

SAMPLE DESCRIPTION: L

TAKEN RECEIVED
07-20-87

Cadmium, Diss.	<0.01	mg/l
Calcium, Diss.	191.1	mg/l
Chromium, Diss.	<0.01	mg/l
Iron, Diss.	0.013	mg/l
Lead, Diss.	<0.05	mg/l
Magnesium, Diss.	46.58	mg/l
Alkalinity	199.3	mg/l
Chloride	128.7	mg/l
C.O.D.	52.6	mg/l
Conductivity	1,000	umhos/cm
Nitrogen, Ammonia	0.30	mg/l
Nitrogen, Nitrate	0.2674	mg/l
Nitrogen, Nitrite	0.4213	mg/l
pH	7.06	units
Phenols	0.026	mg/l
Sodium, Diss.	36.33	mg/l
Sulfate	96.27	mg/l
Total Organic Carbon	11.91	mg/l

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SAMPLE NO: 7698
PAGE 42

SOUTH MACOMB DISPOSAL AUT
155 S. RAWLES
PO BOX 67
ROMEO, MI 48065

SAMPLE DESCRIPTION: L

TAKEN RECEIVED
07-20-87

PURGEABLE HALOCARBONS-601 .

1,2-Dichlorobenzene	<10.0	ppb
1,3-Dichlorobenzene	<10.0	ppb
1,4-Dichlorobenzene	<10.0	ppb
Bromoform	<10.0	ppb
Carbon Tetrachloride	<10.0	ppb
Chlorobenzene	<10.0	ppb
Chloroethane	<10.0	ppb
2-Chloroethylvinyl Ether	<10.0	ppb
Chloroform	<10.0	ppb
Dichlorodifluoromethane	<10.0	ppb
1,1-Dichloroethane	<10.0	ppb
1,2-Dichloroethane	<10.0	ppb
1,1-Dichloroethylene	<10.0	ppb
1,2-Dichloropropane	<10.0	ppb
Methylene Chloride	<10.0	ppb
1,1,2,2-Tetrachloroethane	<10.0	ppb

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SAMPLE NO: 7698
PAGE 43

SOUTH MACOMB DISPOSAL AUT
155 S. RAWLES
PO BOX 67
ROMEO, MI 48065

SAMPLE DESCRIPTION: L

TAKEN RECEIVED
07-20-87

Tetrachloroethene	<10.0	ppb
1,1,1-Trichloroethane	<10.0	ppb
1,1,2-Trichloroethane	<10.0	ppb
Trichloroethene	<10.0	ppb
Trichlorofluoromethane	<10.0	ppb
Vinyl Chloride	<10.0	ppb
Bromodichloromethane	<10.0	ppb
Bromomethane	<10.0	ppb
Chloromethane	<10.0	ppb
Dibromochloromethane	<10.0	ppb
trans-1,2-Dichloroethene	<10.0	ppb
cis-1,3-Dichloropropene	<10.0	ppb
trans-1,3-Dichloropropene	<10.0	ppb
.	.	.
PURGEABLE AROMATICS - 602	.	.
1,2,-Dichlorobenzene	<10.0	ppb
1,3,-Dichlorobenzene	<10.0	ppb
1,4,-Dichlorobenzene	<10.0	ppb

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SAMPLE NO: 7698
PAGE 44

SOUTH MACOMB DISPOSAL AUT
155 S. RAWLES
PO BOX 67
ROMEO, MI 48065

SAMPLE DESCRIPTION: L

TAKEN RECEIVED
07-20-87

Benzene	<10.0	ppb
Chlorobenzene	<10.0	ppb
Ethylbenzene	<10.0	ppb
Toluene	<10.0	ppb

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10-23-87

SAMPLE NO.: 7699
PAGE 45

SOUTH MACOMB DISPOSAL AUT
155 S. RAWLES
PO BOX 67
ROMEO, MI 48065

SAMPLE DESCRIPTION: M

TAKEN RECEIVED
07-20-87

Cadmium, Diss.	<0.01	mg/l
Calcium, Diss.	91.08	mg/l
Chromium, Diss.	<0.01	mg/l
Iron, Diss.	0.037	mg/l
Lead, Diss.	<0.05	mg/l
Magnesium, Diss.	29.83	mg/l
Alkalinity	218.1	mg/l
Chloride	85.38	mg/l
C.O.D.	26.6	mg/l
Conductivity	640	umhos/cm
Nitrogen, Ammonia	0.44	mg/l
Nitrogen, Nitrate	0.2199	mg/l
Nitrogen, Nitrite	0.3684	mg/l
pH	7.18	units
Phenols	0.012	mg/l
Sodium, Diss.	32.69	mg/l
Sulfate	16.12	mg/l
Total Organic Carbon	10.58	mg/l

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SAMPLE NO: 7699
PAGE 46

SOUTH MACOMB DISPOSAL AUT
155 S. RAWLES
PO BOX 67
ROMEO, MI 48065

SAMPLE DESCRIPTION: M

TAKEN RECEIVED
07-20-87

PURGEABLE HALOCARBONS-601 .

1,2-Dichlorobenzene	<10.0	ppb
1,3-Dichlorobenzene	<10.0	ppb
1,4-Dichlorobenzene	<10.0	ppb
Bromoform	<10.0	ppb
Carbon Tetrachloride	<10.0	ppb
Chlorobenzene	<10.0	ppb
Chloroethane	<10.0	ppb
2-Chloroethylvinyl Ether	<10.0	ppb
Chloroform	<10.0	ppb
Dichlorodifluoromethane	<10.0	ppb
1,1-Dichloroethane	<10.0	ppb
1,2-Dichloroethane	<10.0	ppb
1,1-Dichloroethylene	<10.0	ppb
1,2-Dichloropropane	<10.0	ppb
Methylene Chloride	<10.0	ppb
1,1,2,2-Tetrachloroethane	<10.0	ppb

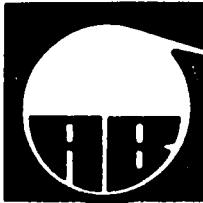
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PAGE 47

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155 S. RAWLES
PO BOX 67
ROMEO, MI 48065

SAMPLE DESCRIPTION: M

TAKEN RECEIVED
07-20-87

Tetrachloroethene	<10.0	ppb
1,1,1-Trichloroethane	<10.0	ppb
1,1,2-Trichloroethane	<10.0	ppb
Trichloroethene	<10.0	ppb
Trichlorofluoromethane	<10.0	ppb
Vinyl Chloride	<10.0	ppb
Bromodichloromethane	<10.0	ppb
Bromomethane	<10.0	ppb
Chloromethane	<10.0	ppb
Dibromochloromethane	<10.0	ppb
trans-1,2-Dichloroethene	<10.0	ppb
cis-1,3-Dichloropropene	<10.0	ppb
trans-1,3-Dichloropropene	<10.0	ppb
.	.	.
PURGEABLE AROMATICS - 602	.	.
1,2,-Dichlorobenzene	<10.0	ppb
1,3,-Dichlorobenzene	<10.0	ppb
1,4,-Dichlorobenzene	<10.0	ppb

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PAGE 48

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SAMPLE DESCRIPTION: M

TAKEN RECEIVED
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Benzene	<10.0	ppb
Chlorobenzene	<10.0	ppb
Ethylbenzene	<10.0	ppb
Toluene	<10.0	ppb

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10-23-87

SAMPLE NO: 7700
PAGE 49

SOUTH MACOMB DISPOSAL AUT
155 S. RAWLES
PO BOX 67
ROMEO, MI 48065

SAMPLE DESCRIPTION: N

TAKEN RECEIVED
07-20-87

Cadmium, Diss.	<0.01	mg/l
Calcium, Diss.	92.59	mg/l
Chromium, Diss.	<0.01	mg/l
Iron, Diss.	0.062	mg/l
Lead, Diss.	<0.05	mg/l
Magnesium, Diss.	29.46	mg/l
Alkalinity	174.1	mg/l
Chloride	59.83	mg/l
C.O.D.	18.0	mg/l
Conductivity	580	umhos/cm
Nitrogen, Ammonia	0.40	mg/l
Nitrogen, Nitrate	0.2296	mg/l
Nitrogen, Nitrite	0.3417	mg/l
pH	7.18	units
Phenols	<0.01	mg/l
Sodium, Diss.	16.44	mg/l
Sulfate	74.73	mg/l
Total Organic Carbon	7.306	mg/l

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AMERICAN COUNCIL OF INDEPENDENT LABORATORIES
INSTITUTE OF FOOD TECHNOLOGISTS



FELLOW - AMERICAN INSTITUTE OF CHEMISTS
DIPLOMAT - AMERICAN BOARD OF BIOANALYSTS
AMERICAN CHEMICAL SOCIETY
AMERICAN SOCIETY FOR MICROBIOLOGY
UNION INTERNATIONALE des LABORATOIRES INDEPENDANTS
ASSOCIATION OF OFFICIAL ANALYTICAL CHEMISTS



Analytic & Biological
Laboratories, Inc.

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10-23-87

SAMPLE NO: 7700
PAGE 50

SOUTH MACOMB DISPOSAL AUT
155 S. RAWLES
PO BOX 67
ROMEO, MI 48065

SAMPLE DESCRIPTION: N

TAKEN RECEIVED
07-20-87

PURGEABLE HALOCARBONS-601 .

.	.	.
1,2-Dichlorobenzene	<10.0	ppb
1,3-Dichlorobenzene	<10.0	ppb
1,4-Dichlorobenzene	<10.0	ppb
Bromoform	<10.0	ppb
Carbon Tetrachloride	<10.0	ppb
Chlorobenzene	<10.0	ppb
Chloroethane	<10.0	ppb
2-Chloroethylvinyl Ether	<10.0	ppb
Chloroform	<10.0	ppb
Dichlorodifluoromethane	<10.0	ppb
1,1-Dichloroethane	<10.0	ppb
1,2-Dichloroethane	<10.0	ppb
1,1-Dichloroethylene	<10.0	ppb
1,2-Dichloropropane	<10.0	ppb
Methylene Chloride	<10.0	ppb
1,1,2,2-Tetrachloroethane	<10.0	ppb

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PO BOX 67
ROMEO, MI 48065

SAMPLE DESCRIPTION: N

TAKEN RECEIVED
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Tetrachloroethene	<10.0	ppb
1,1,1-Trichloroethane	<10.0	ppb
1,1,2-Trichloroethane	<10.0	ppb
Trichloroethene	<10.0	ppb
Trichlorofluoromethane	<10.0	ppb
Vinyl Chloride	<10.0	ppb
Bromodichloromethane	<10.0	ppb
Bromomethane	<10.0	ppb
Chloromethane	<10.0	ppb
Dibromochloromethane	<10.0	ppb
trans-1,2-Dichloroethene	<10.0	ppb
cis-1,3-Dichloropropene	<10.0	ppb
trans-1,3-Dichloropropene	<10.0	ppb
.	.	
PURGEABLE AROMATICS - 602	.	
1,2,-Dichlorobenzene	<10.0	ppb
1,3,-Dichlorobenzene	<10.0	ppb
1,4,-Dichlorobenzene	<10.0	ppb

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155 S. RAWLES
PO BOX 67
ROMEO, MI 48065

SAMPLE DESCRIPTION: N

TAKEN RECEIVED
07-20-87

Benzene	<10.0	ppb
Chlorobenzene	<10.0	ppb
Ethylbenzene	<10.0	ppb
Toluene	<10.0	ppb

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SAMPLE NO: 7701
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SOUTH MACOMB DISPOSAL AUT
155 S. RAWLES
PO BOX 67
ROMEO, MI 48065

SAMPLE DESCRIPTION: O

TAKEN RECEIVED
07-20-87

Cadmium, Diss.	<0.01	mg/l
Calcium, Diss.	104.3	mg/l
Chromium, Diss.	<0.01	mg/l
Iron, Diss.	<0.01	mg/l
Lead, Diss.	<0.05	mg/l
Magnesium, Diss.	29.83	mg/l
Alkalinity	194.1	mg/l
Chloride	99.03	mg/l
C.O.D.	28.6	mg/l
Conductivity	700	umhos/cm
Nitrogen, Ammonia	0.50	mg/l
Nitrogen, Nitrate	0.2285	mg/l
Nitrogen, Nitrite	0.3297	mg/l
pH	6.96	units
Phenols	<0.01	mg/l
Sodium, Diss.	26.92	mg/l
Sulfate	71.20	mg/l
Total Organic Carbon	4.251	mg/l

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SAMPLE NO.: 7701
PAGE 54

SOUTH MACOMB DISPOSAL AUT
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PO BOX 67
ROMEO, MI 48065

SAMPLE DESCRIPTION: O

TAKEN RECEIVED
07-20-87

PURGEABLE HALOCARBONS-601 .

.	.	
1,2-Dichlorobenzene	<10.0	ppb
1,3-Dichlorobenzene	<10.0	ppb
1,4-Dichlorobenzene	<10.0	ppb
Bromoform	<10.0	ppb
Carbon Tetrachloride	<10.0	ppb
Chlorobenzene	<10.0	ppb
Chloroethane	<10.0	ppb
2-Chloroethylvinyl Ether	<10.0	ppb
Chloroform	<10.0	ppb
Dichlorodifluoromethane	<10.0	ppb
1,1-Dichloroethane	<10.0	ppb
1,2-Dichloroethane	<10.0	ppb
1,1-Dichloroethylene	<10.0	ppb
1,2-Dichloropropane	<10.0	ppb
Methylene Chloride	<10.0	ppb
1,1,2,2-Tetrachloroethane	<10.0	ppb

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SOUTH MACOMB DISPOSAL AUT
155 S. RAWLES
PO BOX 67
ROMEO, MI 48065

SAMPLE DESCRIPTION: O

TAKEN RECEIVED
07-20-87

Tetrachloroethene	<10.0	ppb
1,1,1-Trichloroethane	<10.0	ppb
1,1,2-Trichloroethane	<10.0	ppb
Trichloroethene	<10.0	ppb
Trichlorofluoromethane	<10.0	ppb
Vinyl Chloride	<10.0	ppb
Bromodichloromethane	<10.0	ppb
Bromomethane	<10.0	ppb
Chloromethane	<10.0	ppb
Dibromochloromethane	<10.0	ppb
trans-1,2-Dichloroethene	<10.0	ppb
cis-1,3-Dichloropropene	<10.0	ppb
trans-1,3-Dichloropropene	<10.0	ppb
.	.	
PURGEABLE AROMATICS - 602	.	
1,2,-Dichlorobenzene	<10.0	ppb
1,3,-Dichlorobenzene	<10.0	ppb
1,4,-Dichlorobenzene	<10.0	ppb

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SOUTH MACOMB DISPOSAL AUT
155 S. RAWLES
PO BOX 67
ROMEO, MI 48065

SAMPLE DESCRIPTION: O

TAKEN RECEIVED
07-20-87

Benzene	<10.0	ppb
Chlorobenzene	<10.0	ppb
Ethylbenzene	<10.0	ppb
Toluene	<10.0	ppb

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SAMPLE NO: 7702
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SOUTH MACOMB DISPOSAL AUT
155 S. RAWLES
PO BOX 67
ROMEO, MI 48065

SAMPLE DESCRIPTION: P

TAKEN RECEIVED
07-20-87

Cadmium, Diss.	<0.01	mg/l
Calcium, Diss.	88.47	mg/l
Chromium, Diss.	<0.01	mg/l
Iron, Diss.	<0.01	mg/l
Lead, Diss.	<0.05	mg/l
Magnesium, Diss.	25.57	mg/l
Alkalinity	241.6	mg/l
Chloride	30.90	mg/l
C.O.D.	15.3	mg/l
Conductivity	560	umhos/cm
Nitrogen, Ammonia	0.34	mg/l
Nitrogen, Nitrate	0.2287	mg/l
Nitrogen, Nitrite	0.3574	mg/l
pH	7.12	units
Phenols	<0.01	mg/l
Sodium, Diss.	25.26	mg/l
Sulfate	24.40	mg/l
Total Organic Carbon	19.15	mg/l

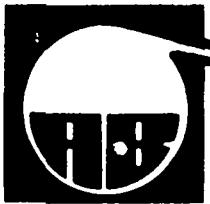
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SAMPLE NO: 7702
PAGE 58

SOUTH MACOMB DISPOSAL AUT
155 S. RAWLES
PO BOX 67
ROMEO, MI 48065

SAMPLE DESCRIPTION: P

TAKEN RECEIVED
07-20-87

PURGEABLE HALOCARBONS-601 .

1,2-Dichlorobenzene	<10.0	ppb
1,3-Dichlorobenzene	<10.0	ppb
1,4-Dichlorobenzene	<10.0	ppb
Bromoform	<10.0	ppb
Carbon Tetrachloride	<10.0	ppb
Chlorobenzene	<10.0	ppb
Chloroethane	<10.0	ppb
2-Chloroethylvinyl Ether	<10.0	ppb
Chloroform	<10.0	ppb
Dichlorodifluoromethane	<10.0	ppb
1,1-Dichloroethane	<10.0	ppb
1,2-Dichloroethane	<10.0	ppb
1,1-Dichloroethylene	<10.0	ppb
1,2-Dichloropropane	<10.0	ppb
Methylene Chloride	<10.0	ppb
1,1,2,2-Tetrachloroethane	<10.0	ppb

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PAGE 59

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155 S. RAWLES
PO BOX 67
ROMEO, MI 48065

SAMPLE DESCRIPTION: P

TAKEN RECEIVED
07-20-87

Tetrachloroethene	<10.0	ppb
1,1,1-Trichloroethane	<10.0	ppb
1,1,2-Trichloroethane	<10.0	ppb
Trichloroethene	<10.0	ppb
Trichlorofluoromethane	<10.0	ppb
Vinyl Chloride	<10.0	ppb
Bromodichloromethane	<10.0	ppb
Bromomethane	<10.0	ppb
Chloromethane	<10.0	ppb
Dibromochloromethane	<10.0	ppb
trans-1,2-Dichloroethene	<10.0	ppb
cis-1,3-Dichloropropene	<10.0	ppb
trans-1,3-Dichloropropene	<10.0	ppb
.	.	.
PURGEABLE AROMATICS - 602	.	.
1,2,-Dichlorobenzene	<10.0	ppb
1,3,-Dichlorobenzene	<10.0	ppb
1,4,-Dichlorobenzene	<10.0	ppb

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PAGE 60

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SAMPLE DESCRIPTION: P

TAKEN RECEIVED
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Benzene	<10.0	ppb
Chlorobenzene	<10.0	ppb
Ethylbenzene	<10.0	ppb
Toluene	<10.0	ppb

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SAMPLE NO.: 7703
PAGE 61

SOUTH MACOMB DISPOSAL AUT
155 S. RAWLES
PO BOX 67
ROMEO, MI 48065

SAMPLE DESCRIPTION: Q

TAKEN RECEIVED
07-20-87

Cadmium, Diss.	<0.01	mg/l
Calcium, Diss.	120.7	mg/l
Chromium, Diss.	<0.01	mg/l
Iron, Diss.	0.022	mg/l
Lead, Diss.	<0.05	mg/l
Magnesium, Diss.	45.67	mg/l
Alkalinity	354.5	mg/l
Chloride	93.30	mg/l
C.O.D.	62.0	mg/l
Conductivity	820	umhos/cm
Nitrogen, Ammonia	1.00	mg/l
Nitrogen, Nitrate	0.2101	mg/l
Nitrogen, Nitrite	0.3459	mg/l
pH	7.16	units
Phenols	<0.01	mg/l
Sodium, Diss.	52.36	mg/l
Sulfate	38.72	mg/l
Total Organic Carbon	24.73	mg/l

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PAGE 62

SOUTH MACOMB DISPOSAL AUT
155 S. RAWLES
PO BOX 67
ROMEO, MI 48065

SAMPLE DESCRIPTION: Q

TAKEN RECEIVED
07-20-87

PURGEABLE HALOCARBONS-601 .

1,2-Dichlorobenzene	<10.0	ppb
1,3-Dichlorobenzene	<10.0	ppb
1,4-Dichlorobenzene	<10.0	ppb
Bromoform	<10.0	ppb
Carbon Tetrachloride	<10.0	ppb
Chlorobenzene	<10.0	ppb
Chloroethane	<10.0	ppb
2-Chloroethylvinyl Ether	<10.0	ppb
Chloroform	<10.0	ppb
Dichlorodifluoromethane	<10.0	ppb
1,1-Dichloroethane	<10.0	ppb
1,2-Dichloroethane	<10.0	ppb
1,1-Dichloroethylene	<10.0	ppb
1,2-Dichloropropane	<10.0	ppb
Methylene Chloride	<10.0	ppb
1,1,2,2-Tetrachloroethane	<10.0	ppb

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SAMPLE NO: 7703
PAGE 63

SOUTH MACOMB DISPOSAL AUT
155 S. RAWLES
PO BOX 67
ROMEO, MI 48065

SAMPLE DESCRIPTION: Q

TAKEN RECEIVED
07-20-87

Tetrachloroethene	<10.0	ppb
1,1,1-Trichloroethane	<10.0	ppb
1,1,2-Trichloroethane	<10.0	ppb
Trichloroethene	<10.0	ppb
Trichlorofluoromethane	<10.0	ppb
Vinyl Chloride	<10.0	ppb
Bromodichloromethane	<10.0	ppb
Bromomethane	<10.0	ppb
Chloromethane	<10.0	ppb
Dibromochloromethane	<10.0	ppb
trans-1,2-Dichloroethene	<10.0	ppb
cis-1,3-Dichloropropene	<10.0	ppb
trans-1,3-Dichloropropene	<10.0	ppb
PURGEABLE AROMATICS - 602	.	.
1,2,-Dichlorobenzene	<10.0	ppb
1,3,-Dichlorobenzene	<10.0	ppb
1,4,-Dichlorobenzene	<10.0	ppb

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10-23-87

SAMPLE NO: 7703
PAGE 64

SOUTH MACOMB DISPOSAL AUT
155 S. RAWLES
PO BOX 67
ROMEO, MI 48065

SAMPLE DESCRIPTION: Q

TAKEN RECEIVED
07-20-87

Benzene	<10.0	ppb
Chlorobenzene	<10.0	ppb
Ethylbenzene	<10.0	ppb
Toluene	<10.0	ppb

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10-23-87

SAMPLE NO: 7704
PAGE 65

SOUTH MACOMB DISPOSAL AUT
155 S. RAWLES
PO BOX 67
ROMEO, MI 48065

SAMPLE DESCRIPTION: Duplicate B

TAKEN RECEIVED
07-20-87

Cadmium, Diss.	<0.01	mg/l
Calcium, Diss.	80.79	mg/l
Chromium, Diss.	<0.01	mg/l
Iron, Diss.	0.069	mg/l
Lead, Diss.	<0.05	mg/l
Magnesium, Diss.	31.46	mg/l
Alkalinity	203.2	mg/l
Chloride	62.24	mg/l
C.O.D.	19.3	mg/l
Conductivity	520	umhos/cm
Nitrogen, Ammonia	0.40	mg/l
Nitrogen, Nitrate	0.2108	mg/l
Nitrogen, Nitrite	0.2566	mg/l
pH	7.11	units
Phenols	<0.01	mg/l
Sodium, Diss.	33.31	mg/l
Sulfate	63.34	mg/l
Total Organic Carbon	5.442	mg/l

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SAMPLE NO: 7704
PAGE 66

SOUTH MACOMB DISPOSAL AUT
155 S. RAWLES
PO BOX 67
ROMEO, MI 48065

SAMPLE DESCRIPTION: Duplicate B

TAKEN RECEIVED
07-20-87

PURGEABLE HALOCARBONS-601

.	.	.
1,2-Dichlorobenzene	<10.0	ppb
1,3-Dichlorobenzene	<10.0	ppb
1,4-Dichlorobenzene	<10.0	ppb
Bromoform	<10.0	ppb
Carbon Tetrachloride	<10.0	ppb
Chlorobenzene	<10.0	ppb
Chloroethane	<10.0	ppb
2-Chloroethylvinyl Ether	<10.0	ppb
Chloroform	<10.0	ppb
Dichlorodifluoromethane	<10.0	ppb
1,1-Dichloroethane	<10.0	ppb
1,2-Dichloroethane	<10.0	ppb
1,1-Dichloroethylene	<10.0	ppb
1,2-Dichloropropane	<10.0	ppb
Methylene Chloride	<10.0	ppb
1,1,2,2-Tetrachloroethane	<10.0	ppb

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07-20-87

Tetrachloroethene	<10.0	ppb
1,1,1-Trichloroethane	<10.0	ppb
1,1,2-Trichloroethane	<10.0	ppb
Trichloroethene	<10.0	ppb
Trichlorofluoromethane	<10.0	ppb
Vinyl Chloride	<10.0	ppb
Bromodichloromethane	<10.0	ppb
Bromomethane	<10.0	ppb
Chloromethane	<10.0	ppb
Dibromochloromethane	<10.0	ppb
trans-1,2-Dichloroethene	<10.0	ppb
cis-1,3-Dichloropropene	<10.0	ppb
trans-1,3-Dichloropropene	<10.0	ppb
.	.	.
PURGEABLE AROMATICS - 602	.	.
1,2,-Dichlorobenzene	<10.0	ppb
1,3,-Dichlorobenzene	<10.0	ppb
1,4,-Dichlorobenzene	<10.0	ppb

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PAGE 68

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TAKEN RECEIVED
07-20-87

Benzene	<10.0	ppb
Chlorobenzene	<10.0	ppb
Ethylbenzene	<10.0	ppb
Toluene	<10.0	ppb

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11-04-87

SAMPLE NO: 9557
PAGE 1

SOUTH MACOMB DISPOSAL AUT
155 S. RAWLES
PO BOX 67
ROMEO, MI 48065

SAMPLE DESCRIPTION: M 1290-2 ABL 6006

TAKEN RECEIVED
10-30-87

Cadmium, Diss.	<0.01	mg/l
Calcium, Diss.	160.0	mg/l
Chromium, Diss.	<0.01	mg/l
Iron, Diss.	0.210	mg/l
Lead, Diss.	<0.05	mg/l
Magnesium, Diss.	46.57	mg/l
Alkalinity	197.4	mg/l
Chloride	62.69	mg/l
C.O.D.	20	mg/l
Conductivity	780	umhos/cm
Nitrogen, Ammonia	<0.10	mg/l
Nitrogen, Nitrate	<0.10	mg/l
Nitrogen, Nitrite	<0.05	mg/l
pH	6.85	units
Phenols	<0.01	mg/l
Sodium, Diss.	28.22	mg/l
Sulfate	107.8	mg/l
Total Organic Carbon	7.350	mg/l

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11-04-87

SAMPLE NO: 9557
PAGE 2

SOUTH MACOMB DISPOSAL AUT
155 S. RAWLES
PO BOX 67
ROMEO, MI 48065

SAMPLE DESCRIPTION: M 1290-2 ABL 6006

TAKEN RECEIVED
10-30-87

PURGEABLE HALOCARBONS-601	.	.
1,2-Dichlorobenzene	<10	ppb
1,3-Dichlorobenzene	<10	ppb
1,4-Dichlorobenzene	<10	ppb
Bromoform	<10	ppb
Carbon Tetrachloride	<10	ppb
Chlorobenzene	<10	ppb
Chloroethane	<10	ppb
2-Chloroethylvinyl Ether	<10	ppb
Chloroform	<10	ppb
Dichlorodifluoromethane	<10	ppb
1,1-Dichloroethane	<10	ppb
1,2-Dichloroethane	<10	ppb
1,1-Dichloroethylene	<10	ppb
1,2-Dichloropropane	<10	ppb
Methylene Chloride	<10	ppb
1,1,2,2-Tetrachloroethane	<10	ppb

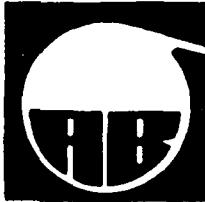
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SAMPLE NO: 9557
PAGE 3

SOUTH MACOMB DISPOSAL AUT
155 S. RAWLES
PO BOX 67
ROMEO, MI 48065

SAMPLE DESCRIPTION: M 1290-2 ABL 6006

TAKEN RECEIVED
10-30-87

Tetrachloroethene	<10	ppb
1,1,1-Trichloroethane	<10	ppb
1,1,2-Trichloroethane	<10	ppb
Trichloroethene	<10	ppb
Trichlorofluoromethane	<10	ppb
Vinyl Chloride	<10	ppb
Bromodichloromethane	<10	ppb
Bromomethane	<10	ppb
Chloromethane	<10	ppb
Dibromochloromethane	<10	ppb
trans-1,2-Dichloroethene	<10	ppb
cis-1,3-Dichloropropene	<10	ppb
trans-1,3-Dichloropropene	<10	ppb
.	.	.
PURGEABLE AROMATICS - 602	.	.
1,2,-Dichlorobenzene	<10	ppb
1,3,-Dichlorobenzene	<10	ppb
1,4,-Dichlorobenzene	<10	ppb

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SAMPLE NO: 9557
PAGE 4

SOUTH MACOMB DISPOSAL AUT
155 S. RAWLES
PO BOX 67
ROMEO, MI 48065

SAMPLE DESCRIPTION: M 1290-2 ABL 6006

TAKEN RECEIVED
10-30-87

Benzene	<10	ppb
Chlorobenzene	<10	ppb
Ethylbenzene	<10	ppb
Toluene	<10	ppb

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SAMPLE NO: 9558
PAGE 5

SOUTH MACOMB DISPOSAL AUT
155 S. RAWLES
PO BOX 67
ROMEO, MI 48065

SAMPLE DESCRIPTION: M 1290-1

TAKEN RECEIVED
10-30-87

Cadmium, Diss.	<0.01	mg/l
Calcium, Diss.	201.0	mg/l
Chromium, Diss.	<0.01	mg/l
Iron, Diss.	0.110	mg/l
Lead, Diss.	<0.05	mg/l
Magnesium, Diss.	46.32	mg/l
Alkalinity	365.0	mg/l
Chloride	144.7	mg/l
C.O.D.	40	mg/l
Conductivity	920	umhos/cm
Nitrogen, Ammonia	<0.10	mg/l
Nitrogen, Nitrate	2.80	mg/l
Nitrogen, Nitrite	0.0896	mg/l
pH	6.81	units
Phenols	<0.01	mg/l
Sodium, Diss.	32.53	mg/l
Sulfate	104.2	mg/l
Total Organic Carbon	6.854	mg/l

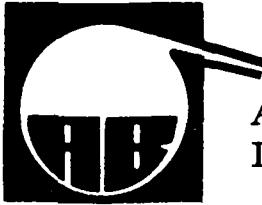
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SAMPLE NO: 9558
PAGE 6

SOUTH MACOMB DISPOSAL AUT
155 S. RAWLES
PO BOX 67
ROMEO, MI 48065

SAMPLE DESCRIPTION: M 1290-1

TAKEN RECEIVED
10-30-87

PURGEABLE HALOCARBONS-601	.	.
1,2-Dichlorobenzene	<10	ppb
1,3-Dichlorobenzene	<10	ppb
1,4-Dichlorobenzene	<10	ppb
Bromoform	<10	ppb
Carbon Tetrachloride	<10	ppb
Chlorobenzene	<10	ppb
Chloroethane	<10	ppb
2-Chloroethylvinyl Ether	<10	ppb
Chloroform	<10	ppb
Dichlorodifluoromethane	<10	ppb
1,1-Dichloroethane	<10	ppb
1,2-Dichloroethane	<10	ppb
1,1-Dichloroethylene	<10	ppb
1,2-Dichloropropane	<10	ppb
Methylene Chloride	<10	ppb
1,1,2,2-Tetrachloroethane	<10	ppb

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PAGE 7

SOUTH MACOMB DISPOSAL AUT
155 S. RAWLES
PO BOX 67
ROMEO, MI 48065

SAMPLE DESCRIPTION: M 1290-1

TAKEN RECEIVED
10-30-87

Tetrachloroethene	<10	ppb
1,1,1-Trichloroethane	<10	ppb
1,1,2-Trichloroethane	<10	ppb
Trichloroethene	<10	ppb
Trichlorofluoromethane	<10	ppb
Vinyl Chloride	<10	ppb
Bromodichloromethane	<10	ppb
Bromomethane	<10	ppb
Chloromethane	<10	ppb
Dibromochloromethane	<10	ppb
trans-1,2-Dichloroethene	<10	ppb
cis-1,3-Dichloropropene	<10	ppb
trans-1,3-Dichloropropene	<10	ppb
.	.	
PURGEABLE AROMATICS - 602	.	
1,2,-Dichlorobenzene	<10	ppb
1,3,-Dichlorobenzene	<10	ppb
1,4,-Dichlorobenzene	<10	ppb

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PO BOX 67
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SAMPLE DESCRIPTION: M 1290-1

TAKEN RECEIVED
10-30-87

Benzene	<10	ppb
Chlorobenzene	<10	ppb
Ethylbenzene	<10	ppb
Toluene	<10	ppb

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11-04-87

SAMPLE NO: 9559
PAGE 9

SOUTH MACOMB DISPOSAL AUT
155 S. RAWLES
PO BOX 67
ROMEO, MI 48065

SAMPLE DESCRIPTION: M 1290-3

TAKEN RECEIVED
10-30-87

Cadmium, Diss.	<0.01	mg/l
Calcium, Diss.	146.4	mg/l
Chromium, Diss.	<0.01	mg/l
Iron, Diss.	0.053	mg/l
Lead, Diss.	<0.05	mg/l
Magnesium, Diss.	35.31	mg/l
Alkalinity	280.2	mg/l
Chloride	56.75	mg/l
C.O.D.	20	mg/l
Conductivity	700	umhos/cm
Nitrogen, Ammonia	<0.10	mg/l
Nitrogen, Nitrate	0.30	mg/l
Nitrogen, Nitrite	0.0674	mg/l
pH	6.85	units
Phenols	<0.01	mg/l
Sodium, Diss.	25.25	mg/l
Sulfate	29.71	mg/l
Total Organic Carbon	8.896	mg/l

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11-04-87

SAMPLE NO: 9559
PAGE 10

SOUTH MACOMB DISPOSAL AUT
155 S. RAWLES
PO BOX 67
ROMEO, MI 48065

SAMPLE DESCRIPTION: M 1290-3

TAKEN RECEIVED
10-30-87

PURGEABLE HALOCARBONS-601	.	.
1,2-Dichlorobenzene	<10	ppb
1,3-Dichlorobenzene	<10	ppb
1,4-Dichlorobenzene	<10	ppb
Bromoform	<10	ppb
Carbon Tetrachloride	<10	ppb
Chlorobenzene	<10	ppb
Chloroethane	<10	ppb
2-Chloroethylvinyl Ether	<10	ppb
Chloroform	<10	ppb
Dichlorodifluoromethane	<10	ppb
1,1-Dichloroethane	<10	ppb
1,2-Dichloroethane	<10	ppb
1,1-Dichloroethylene	<10	ppb
1,2-Dichloropropane	<10	ppb
Methylene Chloride	<10	ppb
1,1,2,2-Tetrachloroethane	<10	ppb

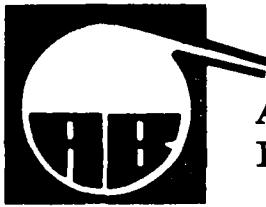
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SAMPLE NO: 9559
PAGE 11

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155 S. RAWLES
PO BOX 67
ROMEO, MI 48065

SAMPLE DESCRIPTION: M 1290-3

TAKEN RECEIVED
10-30-87

Tetrachloroethene	<10	ppb
1,1,1-Trichloroethane	<10	ppb
1,1,2-Trichloroethane	<10	ppb
Trichloroethene	<10	ppb
Trichlorofluoromethane	<10	ppb
Vinyl Chloride	<10	ppb
Bromodichloromethane	<10	ppb
Bromomethane	<10	ppb
Chloromethane	<10	ppb
Dibromochloromethane	<10	ppb
trans-1,2-Dichloroethene	<10	ppb
cis-1,3-Dichloropropene	<10	ppb
trans-1,3-Dichloropropene	<10	ppb
PURGEABLE AROMATICS - 602	.	
1,2,-Dichlorobenzene	<10	ppb
1,3,-Dichlorobenzene	<10	ppb
1,4,-Dichlorobenzene	<10	ppb

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SAMPLE NO: 9559
PAGE 12

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155 S. RAWLES
PO BOX 67
ROMEO, MI 48065

SAMPLE DESCRIPTION: M 1290-3

TAKEN RECEIVED
10-30-87

Benzene	<10	ppb
Chlorobenzene	<10	ppb
Ethylbenzene	<10	ppb
Toluene	<10	ppb

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11-04-87

SAMPLE NO: 9560
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SOUTH MACOMB DISPOSAL AUT
155 S. RAWLES
PO BOX 67
ROMEO, MI 48065

SAMPLE DESCRIPTION: M 1290-1 DUP.

TAKEN RECEIVED
10-30-87

Cadmium, Diss.	<0.01	mg/l
Calcium, Diss.	205.1	mg/l
Chromium, Diss.	<0.01	mg/l
Iron, Diss.	0.070	mg/l
Lead, Diss.	<0.05	mg/l
Magnesium, Diss.	46.75	mg/l
Alkalinity	389.6	mg/l
Chloride	140.0	mg/l
C.O.D.	40	mg/l
Conductivity	960	umhos/cm
Nitrogen, Ammonia	<0.10	mg/l
Nitrogen, Nitrate	2.85	mg/l
Nitrogen, Nitrite	0.0906	mg/l
pH	6.82	units
Phenols	<0.01	mg/l
Sodium, Diss.	33.28	mg/l
Sulfate	102.5	mg/l
Total Organic Carbon	7.259	mg/l

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SAMPLE NO: 9560
PAGE 14

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155 S. RAWLES
PO BOX 67
ROMEO, MI 48065

SAMPLE DESCRIPTION: M 1290-1 DUP.

TAKEN RECEIVED
10-30-87

PURGEABLE HALOCARBONS-601	.	.
1,2-Dichlorobenzene	<10	ppb
1,3-Dichlorobenzene	<10	ppb
1,4-Dichlorobenzene	<10	ppb
Bromoform	<10	ppb
Carbon Tetrachloride	<10	ppb
Chlorobenzene	<10	ppb
Chloroethane	<10	ppb
2-Chloroethylvinyl Ether	<10	ppb
Chloroform	<10	ppb
Dichlorodifluoromethane	<10	ppb
1,1-Dichloroethane	<10	ppb
1,2-Dichloroethane	<10	ppb
1,1-Dichloroethylene	<10	ppb
1,2-Dichloropropane	<10	ppb
Methylene Chloride	<10	ppb
1,1,2,2-Tetrachloroethane	<10	ppb

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SAMPLE NO: 9560
PAGE 15

SOUTH MACOMB DISPOSAL AUT
155 S. RAWLES
PO BOX 67
ROMEO, MI 48065

SAMPLE DESCRIPTION: M 1290-1 DUP.

TAKEN RECEIVED
10-30-87

Tetrachloroethene	<10	ppb
1,1,1-Trichloroethane	<10	ppb
1,1,2-Trichloroethane	<10	ppb
Trichloroethene	<10	ppb
Trichlorofluoromethane	<10	ppb
Vinyl Chloride	<10	ppb
Bromodichloromethane	<10	ppb
Bromomethane	<10	ppb
Chloromethane	<10	ppb
Dibromochloromethane	<10	ppb
trans-1,2-Dichloroethene	<10	ppb
cis-1,3-Dichloropropene	<10	ppb
trans-1,3-Dichloropropene	<10	ppb
PURGEABLE AROMATICS - 602	.	
1,2,-Dichlorobenzene	<10	ppb
1,3,-Dichlorobenzene	<10	ppb
1,4,-Dichlorobenzene	<10	ppb

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October 29, 1987



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10-23-87

SAMPLE NO: 8954
PAGE 1

SOUTH MACOMB DISPOSAL AUT
155 S. RAWLES
PO BOX 67
ROMEO, MI 48065

SAMPLE DESCRIPTION: A ABL 5710

TAKEN RECEIVED
09-25-87

Cadmium, Diss.	<0.01	mg/l
Calcium, Diss.	46.86	mg/l
Chromium, Diss.	<0.01	mg/l
Iron, Diss.	<0.02	mg/l
Lead, Diss.	<0.05	mg/l
Magnesium, Diss.	22.78	mg/l
Alkalinity	204	mg/l
Chloride	31.00	mg/l
C.O.D.	10.7	mg/l
Conductivity	456	umhos/cm
Nitrogen, Ammonia	0.20	mg/l
Nitrogen, Nitrate	0.1399	mg/l
Nitrogen, Nitrite	0.0627	mg/l
pH	7.39	units
Phenols	<0.01	mg/l
Sodium, Diss.	10.49	mg/l
Sulfate	21.99	mg/l
Total Organic Carbon	6.957	mg/l

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10-23-87

SAMPLE NO: 8954
PAGE 2

SOUTH MACOMB DISPOSAL AUT
155 S. RAWLES
PO BOX 67
ROMEO, MI 48065

SAMPLE DESCRIPTION: A ABL 5710

TAKEN RECEIVED
09-25-87

PURGEABLE HALOCARBONS-601	.	.
1,2-Dichlorobenzene	<10	ppb
1,3-Dichlorobenzene	<10	ppb
1,4-Dichlorobenzene	<10	ppb
Bromoform	<10	ppb
Carbon Tetrachloride	<10	ppb
Chlorobenzene	<10	ppb
Chloroethane	<10	ppb
2-Chloroethylvinyl Ether	<10	ppb
Chloroform	<10	ppb
Dichlorodifluoromethane	<10	ppb
1,1-Dichloroethane	<10	ppb
1,2-Dichloroethane	<10	ppb
1,1-Dichloroethylene	<10	ppb
1,2-Dichloropropane	<10	ppb
Methylene Chloride	<10	ppb
1,1,2,2-Tetrachloroethane	<10	ppb

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10-23-87

SAMPLE NO: 8954
PAGE 3

SOUTH MACOMB DISPOSAL AUT
155 S. RAWLES
PO BOX 67
ROMEO, MI 48065

SAMPLE DESCRIPTION: A ABL 5710

TAKEN RECEIVED
09-25-87

Tetrachloroethene	<10	ppb
1,1,1-Trichloroethane	<10	ppb
1,1,2-Trichloroethane	<10	ppb
Trichloroethene	<10	ppb
Trichlorofluoromethane	<10	ppb
Vinyl Chloride	<10	ppb
Bromodichloromethane	<10	ppb
Bromomethane	<10	ppb
Chloromethane	<10	ppb
Dibromochloromethane	<10	ppb
trans-1,2-Dichloroethene	<10	ppb
cis-1,3-Dichloropropene	<10	ppb
trans-1,3-Dichloropropene	<10	ppb
PURGEABLE AROMATICS - 602	.	.
1,2,-Dichlorobenzene	<10	ppb
1,3,-Dichlorobenzene	<10	ppb
1,4,-Dichlorobenzene	<10	ppb

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10-23-87

SAMPLE NO: 8954
PAGE 4

SOUTH MACOMB DISPOSAL AUT
155 S. RAWLES
PO BOX 67
ROMEO, MI 48065

SAMPLE DESCRIPTION: A ABL 5710

TAKEN RECEIVED
09-25-87

Benzene	<10	ppb
Chlorobenzene	<10	ppb
Ethylbenzene	<10	ppb
Toluene	<10	ppb

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10-23-87

SAMPLE NO: 8955
PAGE 5

SOUTH MACOMB DISPOSAL AUT
155 S. RAWLES
PO BOX 67
ROMEO, MI 48065

SAMPLE DESCRIPTION: B

TAKEN RECEIVED
09-25-87

Cadmium, Diss.	<0.01	mg/l
Calcium, Diss.	73.97	mg/l
Chromium, Diss.	<0.01	mg/l
Iron, Diss.	<0.02	mg/l
Lead, Diss.	<0.05	mg/l
Magnesium, Diss.	29.15	mg/l
Alkalinity	242	mg/l
Chloride	57.45	mg/l
C.O.D.	16.0	mg/l
Conductivity	762	umhos/cm
Nitrogen, Ammonia	0.30	mg/l
Nitrogen, Nitrate	0.1508	mg/l
Nitrogen, Nitrite	0.0823	mg/l
pH	7.21	units
Phenols	<0.01	mg/l
Sodium, Diss.	29.05	mg/l
Sulfate	57.86	mg/l
Total Organic Carbon	7.380	mg/l

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10-23-87

SAMPLE NO: 8955
PAGE 6

SOUTH MACOMB DISPOSAL AUT
155 S. RAWLES
PO BOX 67
ROMEO, MI 48065

SAMPLE DESCRIPTION: B

TAKEN RECEIVED
09-25-87

PURGEABLE HALOCARBONS-601	.	.
1,2-Dichlorobenzene	<10	ppb
1,3-Dichlorobenzene	<10	ppb
1,4-Dichlorobenzene	<10	ppb
Bromoform	<10	ppb
Carbon Tetrachloride	<10	ppb
Chlorobenzene	<10	ppb
Chloroethane	<10	ppb
2-Chloroethylvinyl Ether	<10	ppb
Chloroform	<10	ppb
Dichlorodifluoromethane	<10	ppb
1,1-Dichloroethane	<10	ppb
1,2-Dichloroethane	<10	ppb
1,1-Dichloroethylene	<10	ppb
1,2-Dichloropropane	<10	ppb
Methylene Chloride	<10	ppb
1,1,2,2-Tetrachloroethane	<10	ppb

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SAMPLE NO: 8955
PAGE 7

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155 S. RAWLES
PO BOX 67
ROMEO, MI 48065

SAMPLE DESCRIPTION: B

TAKEN RECEIVED
09-25-87

Tetrachloroethene	<10	ppb
1,1,1-Trichloroethane	<10	ppb
1,1,2-Trichloroethane	<10	ppb
Trichloroethene	<10	ppb
Trichlorofluoromethane	<10	ppb
Vinyl Chloride	<10	ppb
Bromodichloromethane	<10	ppb
Bromomethane	<10	ppb
Chloromethane	<10	ppb
Dibromochloromethane	<10	ppb
trans-1,2-Dichloroethene	<10	ppb
cis-1,3-Dichloropropene	<10	ppb
trans-1,3-Dichloropropene	<10	ppb
.	.	
PURGEABLE AROMATICS - 602	.	
1,2,-Dichlorobenzene	<10	ppb
1,3,-Dichlorobenzene	<10	ppb
1,4,-Dichlorobenzene	<10	ppb

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FELLOW — AMERICAN INSTITUTE OF CHEMISTS
DIPLOMAT — AMERICAN BOARD OF BIOANALYSTS
AMERICAN CHEMICAL SOCIETY
AMERICAN SOCIETY FOR MICROBIOLOGY
UNION INTERNATIONALE des LABORATOIRES INDEPENDANTS
ASSOCIATION OF OFFICIAL ANALYTICAL CHEMISTS



Analytic & Biological
Laboratories, Inc.

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10-23-87

SAMPLE NO: 8955
PAGE 8

SOUTH MACOMB DISPOSAL AUT
155 S. RAWLES
PO BOX 67
ROMEO, MI 48065

SAMPLE DESCRIPTION: B

TAKEN RECEIVED
09-25-87

Benzene	<10	ppb
Chlorobenzene	<10	ppb
Ethylbenzene	<10	ppb
Toluene	<10	ppb

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SAMPLE NO: 8956
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PO BOX 67
ROMEO, MI 48065

SAMPLE DESCRIPTION: C

TAKEN RECEIVED
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Cadmium, Diss.	<0.01	mg/l
Calcium, Diss.	55.54	mg/l
Chromium, Diss.	<0.01	mg/l
Iron, Diss.	<0.02	mg/l
Lead, Diss.	<0.05	mg/l
Magnesium, Diss.	21.53	mg/l
Alkalinity	176	mg/l
Chloride	47.87	mg/l
C.O.D.	21.3	mg/l
Conductivity	505	umhos/cm
Nitrogen, Ammonia	0.22	mg/l
Nitrogen, Nitrate	0.1220	mg/l
Nitrogen, Nitrite	0.0703	mg/l
pH	7.02	units
Phenols	<0.01	mg/l
Sodium, Diss.	6.087	mg/l
Sulfate	17.42	mg/l
Total Organic Carbon	12.75	mg/l

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155 S. RAWLES
PO BOX 67
ROMEO, MI 48065

SAMPLE DESCRIPTION: C

TAKEN RECEIVED
09-25-87

PURGEABLE HALOCARBONS-601	.	.
1,2-Dichlorobenzene	<10	ppb
1,3-Dichlorobenzene	<10	ppb
1,4-Dichlorobenzene	<10	ppb
Bromoform	<10	ppb
Carbon Tetrachloride	<10	ppb
Chlorobenzene	<10	ppb
Chloroethane	<10	ppb
2-Chloroethylvinyl Ether	<10	ppb
Chloroform	<10	ppb
Dichlorodifluoromethane	<10	ppb
1,1-Dichloroethane	<10	ppb
1,2-Dichloroethane	<10	ppb
1,1-Dichloroethylene	<10	ppb
1,2-Dichloropropane	<10	ppb
Methylene Chloride	<10	ppb
1,1,2,2-Tetrachloroethane	<10	ppb

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ROMEO, MI 48065

SAMPLE DESCRIPTION: C

TAKEN RECEIVED
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Tetrachloroethene	<10	ppb
1,1,1-Trichloroethane	<10	ppb
1,1,2-Trichloroethane	<10	ppb
Trichloroethene	<10	ppb
Trichlorofluoromethane	<10	ppb
Vinyl Chloride	<10	ppb
Bromodichloromethane	<10	ppb
Bromomethane	<10	ppb
Chloromethane	<10	ppb
Dibromochloromethane	<10	ppb
trans-1,2-Dichloroethene	<10	ppb
cis-1,3-Dichloropropene	<10	ppb
trans-1,3-Dichloropropene	<10	ppb
PURGEABLE AROMATICS - 602	.	.
1,2,-Dichlorobenzene	<10	ppb
1,3,-Dichlorobenzene	<10	ppb
1,4,-Dichlorobenzene	<10	ppb

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Benzene	<10	ppb
Chlorobenzene	<10	ppb
Ethylbenzene	<10	ppb
Toluene	<10	ppb

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ROMEO, MI 48065

SAMPLE DESCRIPTION: D

TAKEN RECEIVED
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Cadmium, Diss.	<0.01	mg/l
Calcium, Diss.	124.2	mg/l
Chromium, Diss.	<0.01	mg/l
Iron, Diss.	0.030	mg/l
Lead, Diss.	<0.05	mg/l
Magnesium, Diss.	38.96	mg/l
Alkalinity	410	mg/l
Chloride	73.27	mg/l
C.O.D.	21.3	mg/l
Conductivity	940	umhos/cm
Nitrogen, Ammonia	0.56	mg/l
Nitrogen, Nitrate	0.1126	mg/l
Nitrogen, Nitrite	0.904	mg/l
pH	7.10	units
Phenols	0.01	mg/l
Sodium, Diss.	23.65	mg/l
Sulfate	18.93	mg/l
Total Organic Carbon	11.90	mg/l

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ROMEO, MI 48065

SAMPLE DESCRIPTION: D

TAKEN RECEIVED
09-25-87

PURGEABLE HALOCARBONS-601

.	.	.
1,2-Dichlorobenzene	<10	ppb
1,3-Dichlorobenzene	<10	ppb
1,4-Dichlorobenzene	<10	ppb
Bromoform	<10	ppb
Carbon Tetrachloride	<10	ppb
Chlorobenzene	<10	ppb
Chloroethane	<10	ppb
2-Chloroethylvinyl Ether	<10	ppb
Chloroform	<10	ppb
Dichlorodifluoromethane	<10	ppb
1,1-Dichloroethane	<10	ppb
1,2-Dichloroethane	<10	ppb
1,1-Dichloroethylene	<10	ppb
1,2-Dichloropropane	<10	ppb
Methylene Chloride	<10	ppb
1,1,2,2-Tetrachloroethane	<10	ppb

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155 S. RAWLES
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ROMEO, MI 48065

SAMPLE DESCRIPTION: D

TAKEN RECEIVED
09-25-87

Tetrachloroethene	<10	ppb
1,1,1-Trichloroethane	<10	ppb
1,1,2-Trichloroethane	<10	ppb
Trichloroethene	<10	ppb
Trichlorofluoromethane	<10	ppb
Vinyl Chloride	<10	ppb
Bromodichloromethane	<10	ppb
Bromomethane	<10	ppb
Chloromethane	<10	ppb
Dibromochloromethane	<10	ppb
trans-1,2-Dichloroethene	<10	ppb
cis-1,3-Dichloropropene	<10	ppb
trans-1,3-Dichloropropene	<10	ppb
.	.	
PURGEABLE AROMATICS - 602	.	
1,2,-Dichlorobenzene	<10	ppb
1,3,-Dichlorobenzene	<10	ppb
1,4,-Dichlorobenzene	<10	ppb

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SOUTH MACOMB DISPOSAL AUT
155 S. RAWLES
PO BOX 67
ROMEO, MI 48065

SAMPLE DESCRIPTION: D

TAKEN RECEIVED
09-25-87

Benzene	<10	ppb
Chlorobenzene	<10	ppb
Ethylbenzene	<10	ppb
Toluene	<10	ppb

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SAMPLE NO: 8958
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SOUTH MACOMB DISPOSAL AUT
155 S. RAWLES
PO BOX 67
ROMEO, MI 48065

SAMPLE DESCRIPTION: E

TAKEN RECEIVED
09-25-87

Cadmium, Diss.	<0.01	mg/l
Calcium, Diss.	73.37	mg/l
Chromium, Diss.	<0.01	mg/l
Iron, Diss.	<0.02	mg/l
Lead, Diss.	<0.05	mg/l
Magnesium, Diss.	24.16	mg/l
Alkalinity	244	mg/l
Chloride	41.40	mg/l
C.O.D.	13.3	mg/l
Conductivity	535	umhos/cm
Nitrogen, Ammonia	0.11	mg/l
Nitrogen, Nitrate	0.1386	mg/l
Nitrogen, Nitrite	0.0947	mg/l
pH	7.36	units
Phenols	<0.01	mg/l
Sodium, Diss.	11.56	mg/l
Sulfate	37.57	mg/l
Total Organic Carbon	6.916	mg/l

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155 S. RAWLES
PO BOX 67
ROMEO, MI 48065

SAMPLE DESCRIPTION: E

TAKEN RECEIVED
09-25-87

PURGEABLE HALOCARBONS-601

.	.	.
1,2-Dichlorobenzene	<10.0	ppb
1,3-Dichlorobenzene	<10.0	ppb
1,4-Dichlorobenzene	<10.0	ppb
Bromoform	<10.0	ppb
Carbon Tetrachloride	<10.0	ppb
Chlorobenzene	<10.0	ppb
Chloroethane	<10.0	ppb
2-Chloroethylvinyl Ether	<10.0	ppb
Chloroform	<10.0	ppb
Dichlorodifluoromethane	<10.0	ppb
1,1-Dichloroethane	<10.0	ppb
1,2-Dichloroethane	<10.0	ppb
1,1-Dichloroethylene	<10.0	ppb
1,2-Dichloropropane	<10.0	ppb
Methylene Chloride	<10.0	ppb
1,1,2,2-Tetrachloroethane	<10.0	ppb

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PAGE 19

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155 S. RAWLES
PO BOX 67
ROMEO, MI 48065

SAMPLE DESCRIPTION: E

TAKEN RECEIVED
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Tetrachloroethene	<10.0	ppb
1,1,1-Trichloroethane	<10.0	ppb
1,1,2-Trichloroethane	<10.0	ppb
Trichloroethene	<10.0	ppb
Trichlorofluoromethane	<10.0	ppb
Vinyl Chloride	<10.0	ppb
Bromodichloromethane	<10.0	ppb
Bromomethane	<10.0	ppb
Chloromethane	<10.0	ppb
Dibromochloromethane	<10.0	ppb
trans-1,2-Dichloroethene	<10.0	ppb
cis-1,3-Dichloropropene	<10.0	ppb
trans-1,3-Dichloropropene	<10.0	ppb
.	.	.
PURGEABLE AROMATICS - 602	.	.
1,2,-Dichlorobenzene	<10.0	ppb
1,3,-Dichlorobenzene	<10.0	ppb
1,4,-Dichlorobenzene	<10.0	ppb

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Benzene	<10.0	ppb
Chlorobenzene	<10.0	ppb
Ethylbenzene	<10.0	ppb
Toluene	<10.0	ppb

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155 S. RAWLES
PO BOX 67
ROMEO, MI 48065

SAMPLE DESCRIPTION: F

TAKEN RECEIVED
09-25-87

Cadmium, Diss.	0.01	mg/l
Calcium, Diss.	123.1	mg/l
Chromium, Diss.	<0.01	mg/l
Iron, Diss.	<0.02	mg/l
Lead, Diss.	<0.05	mg/l
Magnesium, Diss.	56.06	mg/l
Alkalinity	484	mg/l
Chloride	200.7	mg/l
C.O.D.	50.7	mg/l
Conductivity	1,182	umhos/cm
Nitrogen, Ammonia	2.70	mg/l
Nitrogen, Nitrate	0.1444	mg/l
Nitrogen, Nitrite	0.0974	mg/l
pH	6.85	units
Phenols	<0.01	mg/l
Sodium, Diss.	54.60	mg/l
Sulfate	28.67	mg/l
Total Organic Carbon	13.47	mg/l

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SAMPLE NO: 8959
PAGE 22

SOUTH MACOMB DISPOSAL AUT
155 S. RAWLES
PO BOX 67
ROMEO, MI 48065

SAMPLE DESCRIPTION: F

TAKEN RECEIVED
09-25-87

PURGEABLE HALOCARBONS-601	.	.
1,2-Dichlorobenzene	<10.0	ppb
1,3-Dichlorobenzene	<10.0	ppb
1,4-Dichlorobenzene	<10.0	ppb
Bromoform	<10.0	ppb
Carbon Tetrachloride	<10.0	ppb
Chlorobenzene	<10.0	ppb
Chloroethane	<10.0	ppb
2-Chloroethylvinyl Ether	<10.0	ppb
Chloroform	<10.0	ppb
Dichlorodifluoromethane	<10.0	ppb
1,1-Dichloroethane	<10.0	ppb
1,2-Dichloroethane	<10.0	ppb
1,1-Dichloroethylene	<10.0	ppb
1,2-Dichloropropane	<10.0	ppb
Methylene Chloride	<10.0	ppb
1,1,2,2-Tetrachloroethane	<10.0	ppb

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10-23-87

SAMPLE NO: 8959
PAGE 23

SOUTH MACOMB DISPOSAL AUT
155 S. RAWLES
PO BOX 67
ROMEO, MI 48065

SAMPLE DESCRIPTION: F

TAKEN RECEIVED
09-25-87

Tetrachloroethene	<10.0	ppb
1,1,1-Trichloroethane	<10.0	ppb
1,1,2-Trichloroethane	<10.0	ppb
Trichloroethene	<10.0	ppb
Trichlorofluoromethane	<10.0	ppb
Vinyl Chloride	<10.0	ppb
Bromodichloromethane	<10.0	ppb
Bromomethane	<10.0	ppb
Chloromethane	<10.0	ppb
Dibromochloromethane	<10.0	ppb
trans-1,2-Dichloroethene	<10.0	ppb
cis-1,3-Dichloropropene	<10.0	ppb
trans-1,3-Dichloropropene	<10.0	ppb
PURGEABLE AROMATICS - 602	.	.
1,2,-Dichlorobenzene	<10.0	ppb
1,3,-Dichlorobenzene	<10.0	ppb
1,4,-Dichlorobenzene	<10.0	ppb

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155 S. RAWLES
PO BOX 67
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SAMPLE DESCRIPTION: F

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Benzene	<10.0	ppb
Chlorobenzene	<10.0	ppb
Ethylbenzene	<10.0	ppb
Toluene	<10.0	ppb

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SAMPLE NO: 8960
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155 S. RAWLES
PO BOX 67
ROMEO, MI 48065

SAMPLE DESCRIPTION: G

TAKEN RECEIVED
09-25-87

Cadmium, Diss.	<0.01	mg/l
Calcium, Diss.	162.1	mg/l
Chromium, Diss.	<0.01	mg/l
Iron, Diss.	<0.02	mg/l
Lead, Diss.	<0.05	mg/l
Magnesium, Diss.	40.82	mg/l
Alkalinity	496	mg/l
Chloride	30.98	mg/l
C.O.D.	18.7	mg/l
Conductivity	1,319	umhos/cm
Nitrogen, Ammonia	0.86	mg/l
Nitrogen, Nitrate	0.1717	mg/l
Nitrogen, Nitrite	0.0974	mg/l
pH	6.95	units
Phenols	<0.01	mg/l
Sodium, Diss.	20.05	mg/l
Sulfate	100.2	mg/l
Total Organic Carbon	8.515	mg/l

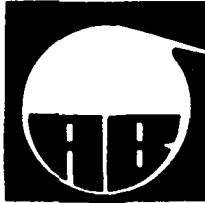
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SAMPLE DESCRIPTION: G

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PURGEABLE HALOCARBONS-601

i,2-Dichlorobenzene	<10.0	ppb
1,3-Dichlorobenzene	<10.0	ppb
1,4-Dichlorobenzene	<10.0	ppb
Bromoform	<10.0	ppb
Carbon Tetrachloride	<10.0	ppb
Chlorobenzene	<10.0	ppb
Chloroethane	<10.0	ppb
2-Chloroethylvinyl Ether	<10.0	ppb
Chloroform	<10.0	ppb
Dichlorodifluoromethane	<10.0	ppb
1,1-Dichloroethane	<10.0	ppb
1,2-Dichloroethane	<10.0	ppb
1,1-Dichloroethylene	<10.0	ppb
1,2-Dichloropropane	<10.0	ppb
Methylene Chloride	<10.0	ppb
1,1,2,2-Tetrachloroethane	<10.0	ppb

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SAMPLE DESCRIPTION: G

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Tetrachloroethene	<10.0	ppb
1,1,1-Trichloroethane	<10.0	ppb
1,1,2-Trichloroethane	<10.0	ppb
Trichloroethene	<10.0	ppb
Trichlorofluoromethane	<10.0	ppb
Vinyl Chloride	<10.0	ppb
Bromodichloromethane	<10.0	ppb
Bromomethane	<10.0	ppb
Chloromethane	<10.0	ppb
Dibromochloromethane	<10.0	ppb
trans-1,2-Dichloroethene	<10.0	ppb
cis-1,3-Dichloropropene	<10.0	ppb
trans-1,3-Dichloropropene	<10.0	ppb
.	.	
PURGEABLE AROMATICS - 602	.	
1,2,-Dichlorobenzene	<10.0	ppb
1,3,-Dichlorobenzene	<10.0	ppb
1,4,-Dichlorobenzene	<10.0	ppb

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Benzene	<10.0	ppb
Chlorobenzene	<10.0	ppb
Ethylbenzene	<10.0	ppb
Toluene	<10.0	ppb

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SAMPLE NO: 8961
PAGE 29

SOUTH MACOMB DISPOSAL AUT
155 S. RAWLES
PO BOX 67
ROMEO, MI 48065

SAMPLE DESCRIPTION: H

TAKEN RECEIVED
09-25-87

Cadmium, Diss.	<0.01	mg/l
Calcium, Diss.	158.3	mg/l
Chromium, Diss.	<0.01	mg/l
Iron, Diss.	<0.02	mg/l
Lead, Diss.	<0.05	mg/l
Magnesium, Diss.	64.92	mg/l
Alkalinity	702	mg/l
Chloride	103.3	mg/l
C.O.D.	32.0	mg/l
Conductivity	1,680	umhos/cm
Nitrogen, Ammonia	0.37	mg/l
Nitrogen, Nitrate	0.1461	mg/l
Nitrogen, Nitrite	0.0867	mg/l
pH	6.99	units
Phenols	<0.01	mg/l
Sodium, Diss.	51.66	mg/l
Sulfate	35.45	mg/l
Total Organic Carbon	7.502	mg/l

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PAGE 30

SOUTH MACOMB DISPOSAL AUT
155 S. RAWLES
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ROMEO, MI 48065

SAMPLE DESCRIPTION: H

TAKEN RECEIVED
09-25-87

PURGEABLE HALOCARBONS-601	.	.
1,2-Dichlorobenzene	<10.0	ppb
1,3-Dichlorobenzene	<10.0	ppb
1,4-Dichlorobenzene	<10.0	ppb
Bromoform	<10.0	ppb
Carbon Tetrachloride	<10.0	ppb
Chlorobenzene	<10.0	ppb
Chloroethane	<10.0	ppb
2-Chloroethylvinyl Ether	<10.0	ppb
Chloroform	<10.0	ppb
Dichlorodifluoromethane	<10.0	ppb
1,1-Dichloroethane	<10.0	ppb
1,2-Dichloroethane	<10.0	ppb
1,1-Dichloroethylene	<10.0	ppb
1,2-Dichloropropane	<10.0	ppb
Methylene Chloride	<10.0	ppb
1,1,2,2-Tetrachloroethane	<10.0	ppb

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PAGE 31

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155 S. RAWLES
PO BOX 67
ROMEO, MI 48065

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TAKEN RECEIVED
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Tetrachloroethene	<10.0	ppb
1,1,1-Trichloroethane	<10.0	ppb
1,1,2-Trichloroethane	<10.0	ppb
Trichloroethene	<10.0	ppb
Trichlorofluoromethane	<10.0	ppb
Vinyl Chloride	<10.0	ppb
Bromodichloromethane	<10.0	ppb
Bromomethane	<10.0	ppb
Chloromethane	<10.0	ppb
Dibromochloromethane	<10.0	ppb
trans-1,2-Dichloroethene	<10.0	ppb
cis-1,3-Dichloropropene	<10.0	ppb
trans-1,3-Dichloropropene	<10.0	ppb
.	.	.
PURGEABLE AROMATICS - 602	.	.
1,2,-Dichlorobenzene	<10.0	ppb
1,3,-Dichlorobenzene	<10.0	ppb
1,4,-Dichlorobenzene	<10.0	ppb

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PAGE 32

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Benzene	<10.0	ppb
Chlorobenzene	<10.0	ppb
Ethylbenzene	<10.0	ppb
Toluene	<10.0	ppb

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SAMPLE NO: 8962
PAGE 33

SOUTH MACOMB DISPOSAL AUT
155 S. RAWLES
PO BOX 67
ROMEO, MI 48065

SAMPLE DESCRIPTION: I

TAKEN RECEIVED
09-25-87

Cadmium, Diss.	<0.01	mg/l
Calcium, Diss.	73.18	mg/l
Chromium, Diss.	<0.01	mg/l
Iron, Diss.	<0.02	mg/l
Lead, Diss.	<0.05	mg/l
Magnesium, Diss.	22.92	mg/l
Alkalinity	240	mg/l
Chloride	13.41	mg/l
C.O.D.	13.3	mg/l
Conductivity	692	umhos/cm
Nitrogen, Ammonia	0.18	mg/l
Nitrogen, Nitrate	0.2235	mg/l
Nitrogen, Nitrite	0.0987	mg/l
pH	7.35	units
Phenols	<0.01	mg/l
Sodium, Diss.	5.774	mg/l
Sulfate	42.56	mg/l
Total Organic Carbon	3.797	mg/l

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PAGE 34

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SAMPLE DESCRIPTION: I

TAKEN RECEIVED
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PURGEABLE HALOCARBONS-601 .

1,2-Dichlorobenzene	<10.0	ppb
1,3-Dichlorobenzene	<10.0	ppb
1,4-Dichlorobenzene	<10.0	ppb
Bromoform	<10.0	ppb
Carbon Tetrachloride	<10.0	ppb
Chlorobenzene	<10.0	ppb
Chloroethane	<10.0	ppb
2-Chloroethylvinyl Ether	<10.0	ppb
Chloroform	<10.0	ppb
Dichlorodifluoromethane	<10.0	ppb
1,1-Dichloroethane	<10.0	ppb
1,2-Dichloroethane	<10.0	ppb
1,1-Dichloroethylene	<10.0	ppb
1,2-Dichloropropane	<10.0	ppb
Methylene Chloride	<10.0	ppb
1,1,2,2-Tetrachloroethane	<10.0	ppb

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PAGE 35

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SAMPLE DESCRIPTION: I

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Tetrachloroethene	<10.0	ppb
1,1,1-Trichloroethane	<10.0	ppb
1,1,2-Trichloroethane	<10.0	ppb
Trichloroethene	<10.0	ppb
Trichlorofluoromethane	<10.0	ppb
Vinyl Chloride	<10.0	ppb
Bromodichloromethane	<10.0	ppb
Bromomethane	<10.0	ppb
Chloromethane	<10.0	ppb
Dibromochloromethane	<10.0	ppb
trans-1,2-Dichloroethene	<10.0	ppb
cis-1,3-Dichloropropene	<10.0	ppb
trans-1,3-Dichloropropene	<10.0	ppb
.	.	
PURGEABLE AROMATICS - 602	.	
1,2,-Dichlorobenzene	<10.0	ppb
1,3,-Dichlorobenzene	<10.0	ppb
1,4,-Dichlorobenzene	<10.0	ppb

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10-23-87

SAMPLE NO: 8962
PAGE 36

SOUTH MACOMB DISPOSAL AUT
155 S. RAWLES
PO BOX 67
ROMEO, MI 48065

SAMPLE DESCRIPTION: I

TAKEN RECEIVED
09-25-87

Benzene	<10.0	ppb
Chlorobenzene	<10.0	ppb
Ethylbenzene	<10.0	ppb
Toluene	<10.0	ppb

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SAMPLE NO: 8963
PAGE 37

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155 S. RAWLES
PO BOX 67
ROMEO, MI 48065

SAMPLE DESCRIPTION: K

TAKEN RECEIVED
09-25-87

Cadmium, Diss.	0.01	mg/l
Calcium, Diss.	267.0	mg/l
Chromium, Diss.	<0.01	mg/l
Iron, Diss.	0.077	mg/l
Lead, Diss.	<0.05	mg/l
Magnesium, Diss.	100.1	mg/l
Alkalinity	864	mg/l
Chloride	326.5	mg/l
C.O.D.	107.0	mg/l
Conductivity	2,900	umhos/cm
Nitrogen, Ammonia	1.80	mg/l
Nitrogen, Nitrate	0.7978	mg/l
Nitrogen, Nitrite	0.1375	mg/l
pH	6.92	units
Phenols	<0.01	mg/l
Sodium, Diss.	324.1	mg/l
Sulfate	701.6	mg/l
Total Organic Carbon	41.23	mg/l

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SAMPLE NO: 8963
PAGE 38

SOUTH MACOMB DISPOSAL AUT
155 S. RAWLES
PO BOX 67
ROMEO, MI 48065

SAMPLE DESCRIPTION: K

TAKEN RECEIVED
09-25-87

PURGEABLE HALOCARBONS-601

i,2-Dichlorobenzene	<10.0	ppb
1,3-Dichlorobenzene	<10.0	ppb
1,4-Dichlorobenzene	<10.0	ppb
Bromoform	<10.0	ppb
Carbon Tetrachloride	<10.0	ppb
Chlorobenzene	<10.0	ppb
Chloroethane	<10.0	ppb
2-Chloroethylvinyl Ether	<10.0	ppb
Chloroform	<10.0	ppb
Dichlorodifluoromethane	<10.0	ppb
1,1-Dichloroethane	<10.0	ppb
1,2-Dichloroethane	<10.0	ppb
1,1-Dichloroethylene	<10.0	ppb
1,2-Dichloropropane	<10.0	ppb
Methylene Chloride	<10.0	ppb
1,1,2,2-Tetrachloroethane	<10.0	ppb

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PAGE 39

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155 S. RAWLES
PO BOX 67
ROMEO, MI 48065

SAMPLE DESCRIPTION: K

TAKEN RECEIVED
09-25-87

Tetrachloroethene	<10.0	ppb
1,1,1-Trichloroethane	<10.0	ppb
1,1,2-Trichloroethane	<10.0	ppb
Trichloroethene	<10.0	ppb
Trichlorofluoromethane	<10.0	ppb
Vinyl Chloride	<10.0	ppb
Bromodichloromethane	<10.0	ppb
Bromomethane	<10.0	ppb
Chloromethane	<10.0	ppb
Dibromochloromethane	<10.0	ppb
trans-1,2-Dichloroethene	<10.0	ppb
cis-1,3-Dichloropropene	<10.0	ppb
trans-1,3-Dichloropropene	<10.0	ppb
.	.	.
PURGEABLE AROMATICS - 602	.	.
1,2,-Dichlorobenzene	<10.0	ppb
1,3,-Dichlorobenzene	<10.0	ppb
1,4,-Dichlorobenzene	<10.0	ppb

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SAMPLE NO: 8963
PAGE 40

SOUTH MACOMB DISPOSAL AUT
155 S. RAWLES
PO BOX 67
ROMEO, MI 48065

SAMPLE DESCRIPTION: K

TAKEN RECEIVED
09-25-87

Benzene	<10.0	ppb
Chlorobenzene	<10.0	ppb
Ethylbenzene	<10.0	ppb
Toluene	<10.0	ppb

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SAMPLE NO: 8964
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SOUTH MACOMB DISPOSAL AUT
155 S. RAWLES
PO BOX 67
ROMEO, MI 48065

SAMPLE DESCRIPTION: L

TAKEN RECEIVED
09-25-87

Cadmium, Diss.	<0.01	mg/l
Calcium, Diss.	185.1	mg/l
Chromium, Diss.	<0.01	mg/l
Iron, Diss.	<0.02	mg/l
Lead, Diss.	<0.05	mg/l
Magnesium, Diss.	43.68	mg/l
Alkalinity	490	mg/l
Chloride	124.0	mg/l
C.O.D.	37.3	mg/l
Conductivity	1,187	umhos/cm
Nitrogen, Ammonia	0.31	mg/l
Nitrogen, Nitrate	0.1471	mg/l
Nitrogen, Nitrite	0.0747	mg/l
pH	7.02	units
Phenols	<0.01	mg/l
Sodium, Diss.	33.12	mg/l
Sulfate	115.6	mg/l
Total Organic Carbon	9.640	mg/l

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PAGE 42

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155 S. RAWLES
PO BOX 67
ROMEO, MI 48065

SAMPLE DESCRIPTION: L

TAKEN RECEIVED
09-25-87

PURGEABLE HALOCARBONS-601	.	.
1,2-Dichlorobenzene	<10.0	ppb
1,3-Dichlorobenzene	<10.0	ppb
1,4-Dichlorobenzene	<10.0	ppb
Bromoform	<10.0	ppb
Carbon Tetrachloride	<10.0	ppb
Chlorobenzene	<10.0	ppb
Chloroethane	<10.0	ppb
2-Chloroethylvinyl Ether	<10.0	ppb
Chloroform	<10.0	ppb
Dichlorodifluoromethane	<10.0	ppb
1,1-Dichloroethane	<10.0	ppb
1,2-Dichloroethane	<10.0	ppb
1,1-Dichloroethylene	<10.0	ppb
1,2-Dichloropropane	<10.0	ppb
Methylene Chloride	<10.0	ppb
1,1,2,2-Tetrachloroethane	<10.0	ppb

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PAGE 43

SOUTH MACOMB DISPOSAL AUT
155 S. RAWLES
PO BOX 67
ROMEO, MI 48065

SAMPLE DESCRIPTION: L

TAKEN RECEIVED
09-25-87

Tetrachloroethene	<10.0	ppb
1,1,1-Trichloroethane	<10.0	ppb
1,1,2-Trichloroethane	<10.0	ppb
Trichloroethene	<10.0	ppb
Trichlorofluoromethane	<10.0	ppb
Vinyl Chloride	<10.0	ppb
Bromodichloromethane	<10.0	ppb
Bromomethane	<10.0	ppb
Chloromethane	<10.0	ppb
Dibromochloromethane	<10.0	ppb
trans-1,2-Dichloroethene	<10.0	ppb
cis-1,3-Dichloropropene	<10.0	ppb
trans-1,3-Dichloropropene	<10.0	ppb
.	.	.
PURGEABLE AROMATICS - 602	.	.
1,2,-Dichlorobenzene	<10.0	ppb
1,3,-Dichlorobenzene	<10.0	ppb
1,4,-Dichlorobenzene	<10.0	ppb

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SAMPLE NO: 8964
PAGE 44

SOUTH MACOMB DISPOSAL AUT
155 S. RAWLES
PO BOX 67
ROMEO, MI 48065

SAMPLE DESCRIPTION: L

TAKEN RECEIVED
09-25-87

Benzene	<10.0	ppb
Chlorobenzene	<10.0	ppb
Ethylbenzene	<10.0	ppb
Toluene	<10.0	ppb

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SAMPLE NO: 8965
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SOUTH MACOMB DISPOSAL AUT
155 S. RAWLES
PO BOX 67
ROMEO, MI 48065

SAMPLE DESCRIPTION: M

TAKEN RECEIVED
09-25-87

Cadmium, Diss.	<0.01	mg/l
Calcium, Diss.	89.12	mg/l
Chromium, Diss.	<0.01	mg/l
Iron, Diss.	0.036	mg/l
Lead, Diss.	<0.05	mg/l
Magnesium, Diss.	28.24	mg/l
Alkalinity	280	mg/l
Chloride	81.88	mg/l
C.O.D.	25.3	mg/l
Conductivity	634	umhos/cm
Nitrogen, Ammonia	0.15	mg/l
Nitrogen, Nitrate	0.1075	mg/l
Nitrogen, Nitrite	0.0616	mg/l
pH	7.21	units
Phenols	<0.01	mg/l
Sodium, Diss.	25.43	mg/l
Sulfate	27.68	mg/l
Total Organic Carbon	5.645	mg/l

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SAMPLE NO: 8965
PAGE 46

SOUTH MACOMB DISPOSAL AUT
155 S. RAWLES
PO BOX 67
ROMEO, MI 48065

SAMPLE DESCRIPTION: M

TAKEN RECEIVED
09-25-87

PURGEABLE HALOCARBONS-601	.	.
1,2-Dichlorobenzene	<10.0	ppb
1,3-Dichlorobenzene	<10.0	ppb
1,4-Dichlorobenzene	<10.0	ppb
Bromoform	<10.0	ppb
Carbon Tetrachloride	<10.0	ppb
Chlorobenzene	<10.0	ppb
Chloroethane	<10.0	ppb
2-Chloroethylvinyl Ether	<10.0	ppb
Chloroform	<10.0	ppb
Dichlorodifluoromethane	<10.0	ppb
1,1-Dichloroethane	<10.0	ppb
1,2-Dichloroethane	<10.0	ppb
1,1-Dichloroethylene	<10.0	ppb
1,2-Dichloropropane	<10.0	ppb
Methylene Chloride	<10.0	ppb
1,1,2,2-Tetrachloroethane	<10.0	ppb

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SAMPLE NO: 8965
PAGE 47

SOUTH MACOMB DISPOSAL AUT
155 S. RAWLES
PO BOX 67
ROMEO, MI 48065

SAMPLE DESCRIPTION: M

TAKEN RECEIVED
09-25-87

Tetrachloroethene	<10.0	ppb
1,1,1-Trichloroethane	<10.0	ppb
1,1,2-Trichloroethane	<10.0	ppb
Trichloroethene	<10.0	ppb
Trichlorofluoromethane	<10.0	ppb
Vinyl Chloride	<10.0	ppb
Bromodichloromethane	<10.0	ppb
Bromomethane	<10.0	ppb
Chloromethane	<10.0	ppb
Dibromochloromethane	<10.0	ppb
trans-1,2-Dichloroethene	<10.0	ppb
cis-1,3-Dichloropropene	<10.0	ppb
trans-1,3-Dichloropropene	<10.0	ppb
.	.	.
PURGEABLE AROMATICS - 602	.	.
1,2,-Dichlorobenzene	<10.0	ppb
1,3,-Dichlorobenzene	<10.0	ppb
1,4,-Dichlorobenzene	<10.0	ppb

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10-23-87

SAMPLE NO: 8965
PAGE 48

SOUTH MACOMB DISPOSAL AUT
155 S. RAWLES
PO BOX 67
ROMEO, MI 48065

SAMPLE DESCRIPTION: M

TAKEN RECEIVED
09-25-87

Benzene	<10.0	ppb
Chlorobenzene	<10.0	ppb
Ethylbenzene	<10.0	ppb
Toluene	<10.0	ppb

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10-23-87

SAMPLE NO: 8966
PAGE 49

SOUTH MACOMB DISPOSAL AUT
155 S. RAWLES
PO BOX 67
ROMEO, MI 48065

SAMPLE DESCRIPTION: N

TAKEN RECEIVED
09-25-87

Cadmium, Diss.	<0.01	mg/l
Calcium, Diss.	85.90	mg/l
Chromium, Diss.	<0.01	mg/l
Iron, Diss.	<0.02	mg/l
Lead, Diss.	<0.05	mg/l
Magnesium, Diss.	26.63	mg/l
Alkalinity	230	mg/l
Chloride	49.16	mg/l
C.O.D.	13.3	mg/l
Conductivity	821	umhos/cm
Nitrogen, Ammonia	0.15	mg/l
Nitrogen, Nitrate	0.1185	mg/l
Nitrogen, Nitrite	0.0739	mg/l
pH	7.30	units
Phenols	<0.01	mg/l
Sodium, Diss.	12.69	mg/l
Sulfate	67.14	mg/l
Total Organic Carbon	4.529	mg/l

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10-23-87

SAMPLE NO: 8966
PAGE 50

SOUTH MACOMB DISPOSAL AUT
155 S. RAWLES
PO BOX 67
ROMEO, MI 48065

SAMPLE DESCRIPTION: N

TAKEN RECEIVED
09-25-87

PURGEABLE HALOCARBONS-601	.	.
1,2-Dichlorobenzene	<10	ppb
1,3-Dichlorobenzene	<10	ppb
1,4-Dichlorobenzene	<10	ppb
Bromoform	<10	ppb
Carbon Tetrachloride	<10	ppb
Chlorobenzene	<10	ppb
Chloroethane	<10	ppb
2-Chloroethylvinyl Ether	<10	ppb
Chloroform	<10	ppb
Dichlorodifluoromethane	<10	ppb
1,1-Dichloroethane	<10	ppb
1,2-Dichloroethane	<10	ppb
1,1-Dichloroethylene	<10	ppb
1,2-Dichloropropane	<10	ppb
Methylene Chloride	<10	ppb
1,1,2,2-Tetrachloroethane	<10	ppb

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SAMPLE NO: 8966
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155 S. RAWLES
PO BOX 67
ROMEO, MI 48065

SAMPLE DESCRIPTION: N

TAKEN RECEIVED
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Tetrachloroethene	<10	ppb
1,1,1-Trichloroethane	<10	ppb
1,1,2-Trichloroethane	<10	ppb
Trichloroethene	<10	ppb
Trichlorofluoromethane	<10	ppb
Vinyl Chloride	<10	ppb
Bromodichloromethane	<10	ppb
Bromomethane	<10	ppb
Chloromethane	<10	ppb
Dibromochloromethane	<10	ppb
trans-1,2-Dichloroethene	<10	ppb
cis-1,3-Dichloropropene	<10	ppb
trans-1,3-Dichloropropene	<10	ppb
.	.	
PURGEABLE AROMATICS - 602	.	
1,2,-Dichlorobenzene	<10	ppb
1,3,-Dichlorobenzene	<10	ppb
1,4,-Dichlorobenzene	<10	ppb

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SAMPLE NO: 8966
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155 S. RAWLES
PO BOX 67
ROMEO, MI 48065

SAMPLE DESCRIPTION: N

TAKEN RECEIVED
09-25-87

Benzene	<10	ppb
Chlorobenzene	<10	ppb
Ethylbenzene	<10	ppb
Toluene	<10	ppb

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SAMPLE NO: 8967
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SOUTH MACOMB DISPOSAL AUT
155 S. RAWLES
PO BOX 67
ROMEO, MI 48065

SAMPLE DESCRIPTION: O

TAKEN RECEIVED
09-25-87

Cadmium, Diss.	<0.01	mg/l
Calcium, Diss.	99.26	mg/l
Chromium, Diss.	<0.01	mg/l
Iron, Diss.	<0.02	mg/l
Lead, Diss.	<0.05	mg/l
Magnesium, Diss.	28.17	mg/l
Alkalinity	244	mg/l
Chloride	83.82	mg/l
C.O.D.	21.3	mg/l
Conductivity	1,024	umhos/cm
Nitrogen, Ammonia	0.20	mg/l
Nitrogen, Nitrate	0.1491	mg/l
Nitrogen, Nitrite	0.0699	mg/l
pH	7.30	units
Phenols	<0.01	mg/l
Sodium, Diss.	23.87	mg/l
Sulfate	64.22	mg/l
Total Organic Carbon	4.927	mg/l

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SOUTH MACOMB DISPOSAL AUT
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PO BOX 67
ROMEO, MI 48065

SAMPLE DESCRIPTION: O

TAKEN RECEIVED
09-25-87

PURGEABLE HALOCARBONS-601 .

.	.	.
1,2-Dichlorobenzene	<10	ppb
1,3-Dichlorobenzene	<10	ppb
1,4-Dichlorobenzene	<10	ppb
Bromoform	<10	ppb
Carbon Tetrachloride	<10	ppb
Chlorobenzene	<10	ppb
Chloroethane	<10	ppb
2-Chloroethylvinyl Ether	<10	ppb
Chloroform	<10	ppb
Dichlorodifluoromethane	<10	ppb
1,1-Dichloroethane	<10	ppb
1,2-Dichloroethane	<10	ppb
1,1-Dichloroethylene	<10	ppb
1,2-Dichloropropane	<10	ppb
Methylene Chloride	<10	ppb
1,1,2,2-Tetrachloroethane	<10	ppb

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PO BOX 67
ROMEO, MI 48065

SAMPLE DESCRIPTION: O

TAKEN RECEIVED
09-25-87

Tetrachloroethene	<10	ppb
1,1,1-Trichloroethane	<10	ppb
1,1,2-Trichloroethane	<10	ppb
Trichloroethene	<10	ppb
Trichlorofluoromethane	<10	ppb
Vinyl Chloride	<10	ppb
Bromodichloromethane	<10	ppb
Bromomethane	<10	ppb
Chloromethane	<10	ppb
Dibromochloromethane	<10	ppb
trans-1,2-Dichloroethene	<10	ppb
cis-1,3-Dichloropropene	<10	ppb
trans-1,3-Dichloropropene	<10	ppb
.	.	.
PURGEABLE AROMATICS - 602	.	.
1,2,-Dichlorobenzene	<10	ppb
1,3,-Dichlorobenzene	<10	ppb
1,4,-Dichlorobenzene	<10	ppb

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PAGE 56

SOUTH MACOMB DISPOSAL AUT
155 S. RAWLES
PO BOX 67
ROMEO, MI 48065

SAMPLE DESCRIPTION: O

TAKEN RECEIVED
09-25-87

Benzene	<10	ppb
Chlorobenzene	<10	ppb
Ethylbenzene	<10	ppb
Toluene	<10	ppb

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SAMPLE NO: 8968
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SOUTH MACOMB DISPOSAL AUT
155 S. RAWLES
PO BOX 67
ROMEO, MI 48065

SAMPLE DESCRIPTION: P

TAKEN RECEIVED
09-25-87

Cadmium, Diss.	<0.01	mg/l
Calcium, Diss.	79.05	mg/l
Chromium, Diss.	<0.01	mg/l
Iron, Diss.	<0.02	mg/l
Lead, Diss.	<0.05	mg/l
Magnesium, Diss.	23.08	mg/l
Alkalinity	248	mg/l
Chloride	26.95	mg/l
C.O.D.	10.7	mg/l
Conductivity	647	umhos/cm
Nitrogen, Ammonia	0.31	mg/l
Nitrogen, Nitrate	0.3282	mg/l
Nitrogen, Nitrite	0.0824	mg/l
pH	7.21	units
Phenols	<0.01	mg/l
Sodium, Diss.	19.96	mg/l
Sulfate	25.94	mg/l
Total Organic Carbon	4.533	mg/l

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SAMPLE NO: 8968
PAGE 58

SOUTH MACOMB DISPOSAL AUT
155 S. RAWLES
PO BOX 67
ROMEO, MI 48065

SAMPLE DESCRIPTION: P

TAKEN RECEIVED
09-25-87

PURGEABLE HALOCARBONS-601 .

1,2-Dichlorobenzene	<10	ppb
1,3-Dichlorobenzene	<10	ppb
1,4-Dichlorobenzene	<10	ppb
Bromoform	<10	ppb
Carbon Tetrachloride	<10	ppb
Chlorobenzene	<10	ppb
Chloroethane	<10	ppb
2-Chloroethylvinyl Ether	<10	ppb
Chloroform	<10	ppb
Dichlorodifluoromethane	<10	ppb
1,1-Dichloroethane	<10	ppb
1,2-Dichloroethane	<10	ppb
1,1-Dichloroethylene	<10	ppb
1,2-Dichloropropane	<10	ppb
Methylene Chloride	<10	ppb
1,1,2,2-Tetrachloroethane	<10	ppb

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PAGE 59

SOUTH MACOMB DISPOSAL AUT
155 S. RAWLES
PO BOX 67
ROMEO, MI 48065

SAMPLE DESCRIPTION: P

TAKEN RECEIVED
09-25-87

Tetrachloroethene	<10	ppb
1,1,1-Trichloroethane	<10	ppb
1,1,2-Trichloroethane	<10	ppb
Trichloroethene	<10	ppb
Trichlorofluoromethane	<10	ppb
Vinyl Chloride	<10	ppb
Bromodichloromethane	<10	ppb
Bromomethane	<10	ppb
Chloromethane	<10	ppb
Dibromochloromethane	<10.0	ppb
trans-1,2-Dichloroethene	<10.0	ppb
cis-1,3-Dichloropropene	<10.0	ppb
trans-1,3-Dichloropropene	<10.0	ppb
.	.	.
PURGEABLE AROMATICS - 602	.	.
1,2,-Dichlorobenzene	<10.0	ppb
1,3,-Dichlorobenzene	<10.0	ppb
1,4,-Dichlorobenzene	<10.0	ppb

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PAGE 60

SOUTH MACOMB DISPOSAL AUT
155 S. RAWLES
PO BOX 67
ROMEO, MI 48065

SAMPLE DESCRIPTION: P

TAKEN RECEIVED
09-25-87

Benzene	<10.0	ppb
Chlorobenzene	<10.0	ppb
Ethylbenzene	<10.0	ppb
Toluene	<10.0	ppb

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SAMPLE NO: 8969
PAGE 61

SOUTH MACOMB DISPOSAL AUT
155 S. RAWLES
PO BOX 67
ROMEO, MI 48065

SAMPLE DESCRIPTION: Q

TAKEN RECEIVED
09-25-87

Cadmium, Diss.	<0.01	mg/l
Calcium, Diss.	114.8	mg/l
Chromium, Diss.	<0.01	mg/l
Iron, Diss.	<0.02	mg/l
Lead, Diss.	<0.05	mg/l
Magnesium, Diss.	47.29	mg/l
Alkalinity	440	mg/l
Chloride	90.75	mg/l
C.O.D.	29.3	mg/l
Conductivity	1,450	umhos/cm
Nitrogen, Ammonia	0.95	mg/l
Nitrogen, Nitrate	0.1467	mg/l
Nitrogen, Nitrite	0.0868	mg/l
pH	7.03	units
Phenols	<0.01	mg/l
Sodium, Diss.	40.92	mg/l
Sulfate	52.07	mg/l
Total Organic Carbon	8.269	mg/l

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PAGE 63

SOUTH MACOMB DISPOSAL AUT
155 S. RAWLES
PO BOX 67
ROMEO, MI 48065

SAMPLE DESCRIPTION: Q

TAKEN RECEIVED
09-25-87

Tetrachloroethene	<10.0	ppb
1,1,1-Trichloroethane	<10.0	ppb
1,1,2-Trichloroethane	<10.0	ppb
Trichloroethene	<10.0	ppb
Trichlorofluoromethane	<10.0	ppb
Vinyl Chloride	<10.0	ppb
Bromodichloromethane	<10.0	ppb
Bromomethane	<10.0	ppb
Chloromethane	<10.0	ppb
Dibromochloromethane	<10.0	ppb
trans-1,2-Dichloroethene	<10.0	ppb
cis-1,3-Dichloropropene	<10.0	ppb
trans-1,3-Dichloropropene	<10.0	ppb
.	.	.
PURGEABLE AROMATICS - 602	.	.
1,2,-Dichlorobenzene	<10.0	ppb
1,3,-Dichlorobenzene	<10.0	ppb
1,4,-Dichlorobenzene	<10.0	ppb

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10-23-87

SAMPLE NO: 8969
PAGE 64

SOUTH MACOMB DISPOSAL AUT
155 S. RAWLES
PO BOX 67
ROMEO, MI 48065

SAMPLE DESCRIPTION: Q

TAKEN RECEIVED
09-25-87

Benzene	<10.0	ppb
Chlorobenzene	<10.0	ppb
Ethylbenzene	<10.0	ppb
Toluene	<10.0	ppb

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ASSOCIATION OF OFFICIAL ANALYTICAL CHEMISTS



Analytic & Biological
Laboratories, Inc.

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10-23-87

SAMPLE NO: 8970
PAGE 65

SOUTH MACOMB DISPOSAL AUT
155 S. RAWLES
PO BOX 67
ROMEO, MI 48065

SAMPLE DESCRIPTION: DUPLICATE A

TAKEN RECEIVED
09-25-87

Cadmium, Diss.	<0.01	mg/l
Calcium, Diss.	48.23	mg/l
Chromium, Diss.	<0.01	mg/l
Iron, Diss.	0.023	mg/l
Lead, Diss.	<0.05	mg/l
Magnesium, Diss.	23.15	mg/l
Alkalinity	197	mg/l
Chloride	30.81	mg/l
C.O.D.	10.7	mg/l
Conductivity	448	umhos/cm
Nitrogen, Ammonia	0.21	mg/l
Nitrogen, Nitrate	0.13315	mg/l
Nitrogen, Nitrite	0.0556	mg/l
pH	7.35	units
Phenols	<0.01	mg/l
Sodium, Diss.	10.43	mg/l
Sulfate	22.08	mg/l
Total Organic Carbon	6.072	mg/l

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10-23-87

SAMPLE NO: 8970
PAGE 66

SOUTH MACOMB DISPOSAL AUT
155 S. RAWLES
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ROMEO, MI 48065

SAMPLE DESCRIPTION: DUPLICATE A

TAKEN RECEIVED
09-25-87

PURGEABLE HALOCARBONS-601 .

1,2-Dichlorobenzene	<10.0	ppb
1,3-Dichlorobenzene	<10.0	ppb
1,4-Dichlorobenzene	<10.0	ppb
Bromoform	<10.0	ppb
Carbon Tetrachloride	<10.0	ppb
Chlorobenzene	<10.0	ppb
Chloroethane	<10.0	ppb
2-Chloroethylvinyl Ether	<10.0	ppb
Chloroform	<10.0	ppb
Dichlorodifluoromethane	<10.0	ppb
1,1-Dichloroethane	<10.0	ppb
1,2-Dichloroethane	<10.0	ppb
1,1-Dichloroethylene	<10.0	ppb
1,2-Dichloropropane	<10.0	ppb
Methylene Chloride	<10.0	ppb
1,1,2,2-Tetrachloroethane	<10.0	ppb

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SAMPLE NO: 8970
PAGE 67

SOUTH MACOMB DISPOSAL AUT
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SAMPLE DESCRIPTION: DUPLICATE A

TAKEN RECEIVED
09-25-87

Tetrachloroethene	<10.0	ppb
1,1,1-Trichloroethane	<10.0	ppb
1,1,2-Trichloroethane	<10.0	ppb
Trichloroethene	<10.0	ppb
Trichlorofluoromethane	<10.0	ppb
Vinyl Chloride	<10.0	ppb
Bromodichloromethane	<10.0	ppb
Bromomethane	<10.0	ppb
Chloromethane	<10.0	ppb
Dibromochloromethane	<10.0	ppb
trans-1,2-Dichloroethene	<10.0	ppb
cis-1,3-Dichloropropene	<10.0	ppb
trans-1,3-Dichloropropene	<10.0	ppb
.	.	
PURGEABLE AROMATICS - 602	.	
1,2,-Dichlorobenzene	<10.0	ppb
1,3,-Dichlorobenzene	<10.0	ppb
1,4,-Dichlorobenzene	<10.0	ppb

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SAMPLE NO: 8970
PAGE 68

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155 S. RAWLES
PO BOX 67
ROMEO, MI 48065

SAMPLE DESCRIPTION: DUPLICATE A

TAKEN RECEIVED
09-25-87

Benzene	<10.0	ppb
Chlorobenzene	<10.0	ppb
Ethylbenzene	<10.0	ppb
Toluene	<10.0	ppb

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11-12-87

SAMPLE NO: 9627
PAGE 1

SOUTH MACOME DISPOSAL AUT
155 S. RAWLES
PO BOX 67
ROMEO, MI 48065

SAMPLE DESCRIPTION: #1 ABL 6047

TAKEN RECEIVED
11-05-87

Cadmium, Diss.	<0.01	mg/l
Calcium, Diss.	199.3	mg/l
Chromium, Diss.	<0.01	mg/l
Iron, Diss.	15	mcg/l
Lead, Diss.	<0.05	mg/l
Magnesium, Diss.	43.18	mg/l
Alkalinity	352.0	mg/l
Chloride	159.4	mg/l
C.O.D.	40	mg/l
Conductivity	1,100	umhos/cm
Nitrogen, Ammonia	0.10	mg/l
Nitrogen, Nitrate	285	mg/l
Nitrogen, Nitrite	<0.01	mg/l
pH	6.66	units
Phenols	0.023	mg/l
Sodium, Diss.	32.42	mg/l
Sulfate	105.8	mg/l
Total Organic Carbon	7.698	mg/l

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SAMPLE NO: 9627
PAGE 3

SOUTH MACOMB DISPOSAL AUT
155 S. RAWLES
PO BOX 67
ROMEO, MI 48065

SAMPLE DESCRIPTION: #1 ABL 6047

TAKEN RECEIVED
11-05-87

Tetrachloroethene	<10	ppb
1,1,1-Trichloroethane	<10	ppb
1,1,2-Trichloroethane	<10	ppb
Trichloroethene	<10	ppb
Trichlorofluoromethane	<10	ppb
Vinyl Chloride	<10	ppb
Bromodichloromethane	<10	ppb
Bromomethane	<10	ppb
Chloromethane	<10	ppb
Dibromochloromethane	<10	ppb
trans-1,2-Dichloroethene	<10	ppb
cis-1,3-Dichloropropene	<10	ppb
trans-1,3-Dichloropropene	<10	ppb
.	.	.
PURGEABLE AROMATICS - 602	.	.
1,2,-Dichlorobenzene	<10	ppb
1,3,-Dichlorobenzene	<10	ppb
1,4,-Dichlorobenzene	<10	ppb

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SAMPLE NO: 9627
PAGE 4

SOUTH MACOMB DISPOSAL AUT
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PO BOX 67
ROMEO, MI 48065

SAMPLE DESCRIPTION: #1 ABL 6047

TAKEN RECEIVED
11-05-87

Benzene	<10	ppb
Chlorobenzene	<10	ppb
Ethylbenzene	<10	ppb
Toluene	<10	ppb

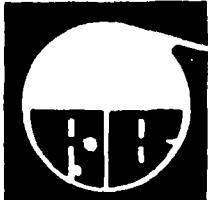
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SAMPLE NO: 9628
PAGE 5

SOUTH MACOMB DISPOSAL AUT
155 S. RAWLES
PO BOX 67
ROMEO, MI 48065

SAMPLE DESCRIPTION: #2

TAKEN RECEIVED
11-05-87

Cadmium, Diss.	<0.01	mg/l
Calcium, Diss.	177.3	mg/l
Chromium, Diss.	<0.01	mg/l
Iron, Diss.	14	mcg/l
Lead, Diss.	<0.05	mg/l
Magnesium, Diss.	47.60	mg/l
Alkalinity	372.0	mg/l
Chloride	80.96	mg/l
C.O.D.	28.0	mg/l
Conductivity	980	umhos/cm
Nitrogen, Ammonia	0.15	mg/l
Nitrogen, Nitrate	0.625	mg/l
Nitrogen, Nitrite	0.015	mg/l
pH	6.70	units
Phenols	0.062	mg/l
Sodium, Diss.	28.16	mg/l
Sulfate	109.9	mg/l
Total Organic Carbon	8.50	mg/l

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SAMPLE NO: 9628
PAGE 6

SOUTH MACOMB DISPOSAL AUT
155 S. RAWLES
PO BOX 67
ROMEO, MI 48065

SAMPLE DESCRIPTION: #2

TAKEN RECEIVED
11-05-87

PURGEABLE HALOCARBONS-601 .

.	.	.
1,2-Dichlorobenzene	<10	ppb
1,3-Dichlorobenzene	<10	ppb
1,4-Dichlorobenzene	<10	ppb
Bromoform	<10	ppb
Carbon Tetrachloride	<10	ppb
Chlorobenzene	<10	ppb
Chloroethane	<10	ppb
2-Chloroethylvinyl Ether	<10	ppb
Chloroform	<10	ppb
Dichlorodifluoromethane	<10	ppb
1,1-Dichloroethane	<10	ppb
1,2-Dichloroethane	<10	ppb
1,1-Dichloroethylene	<10	ppb
1,2-Dichloropropane	<10	ppb
Methylene Chloride	<10	ppb
1,1,2,2-Tetrachloroethane	<10	ppb

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SAMPLE NO: 9628
PAGE 7

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155 S. RAWLES
PO BOX 67
ROMEO, MI 48065

SAMPLE DESCRIPTION: #2

TAKEN RECEIVED
11-05-87

Tetrachloroethene	<10	ppb
1,1,1-Trichloroethane	<10	ppb
1,1,2-Trichloroethane	<10	ppb
Trichloroethene	<10	ppb
Trichlorofluoromethane	<10	ppb
Vinyl Chloride	<10	ppb
Bromodichloromethane	<10	ppb
Bromomethane	<10	ppb
Chloromethane	<10	ppb
Dibromochloromethane	<10	ppb
trans-1,2-Dichloroethene	<10	ppb
cis-1,3-Dichloropropene	<10	ppb
trans-1,3-Dichloropropene	<10	ppb
.	.	
PURGEABLE AROMATICS - 602	.	
1,2,-Dichlorobenzene	<10	ppb
1,3,-Dichlorobenzene	<10	ppb
1,4,-Dichlorobenzene	<10	ppb

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SAMPLE NO: 9628
PAGE 8

SOUTH MACOMB DISPOSAL AUT
155 S. RAWLES
PO BOX 67
ROMEO, MI 48065

SAMPLE DESCRIPTION: #2

TAKEN RECEIVED
11-05-87

Benzene	<10	ppb
Chlorobenzene	<10	ppb
Ethylbenzene	<10	ppb
Toluene	<10	ppb

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SAMPLE NO: 9629
PAGE 9

SOUTH MACOMB DISPOSAL AUT
155 S. RAWLES
PO BOX 67
ROMEO, MI 48065

SAMPLE DESCRIPTION: #3

TAKEN RECEIVED
11-05-87

Cadmium, Diss.	<0.01	mg/l
Calcium, Diss.	117.9	mg/l
Chromium, Diss.	<0.01	mg/l
Iron, Diss.	<10	mcg/l
Lead, Diss.	<0.05	mg/l
Magnesium, Diss.	28.58	mg/l
Alkalinity	249.6	mg/l
Chloride	44.13	mg/l
C.O.D.	24.0	mg/l
Conductivity	700	umhos/cm
Nitrogen, Ammonia	0.15	mg/l
Nitrogen, Nitrate	0.375	mg/l
Nitrogen, Nitrite	0.035	mg/l
pH	6.66	units
Phenols	<0.01	mg/l
Sodium, Diss.	19.24	mg/l
Sulfate	28.55	mg/l
Total Organic Carbon	8.859	mg/l

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SAMPLE NO: 9629
PAGE 10

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155 S. RAWLES
PO BOX 67
ROMEO, MI 48065

SAMPLE DESCRIPTION: #3

TAKEN RECEIVED
11-05-87

PURGEABLE HALOCARBONS-601 .

1,2-Dichlorobenzene	<10	ppb
1,3-Dichlorobenzene	<10	ppb
1,4-Dichlorobenzene	<10	ppb
Bromoform	<10	ppb
Carbon Tetrachloride	<10	ppb
Chlorobenzene	<10	ppb
Chloroethane	<10	ppb
2-Chloroethylvinyl Ether	<10	ppb
Chloroform	<10	ppb
Dichlorodifluoromethane	<10	ppb
1,1-Dichloroethane	<10	ppb
1,2-Dichloroethane	<10	ppb
1,1-Dichloroethylene	<10	ppb
1,2-Dichloropropane	<10	ppb
Methylene Chloride	<10	ppb
1,1,2,2-Tetrachloroethane	<10	ppb

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11-12-87

SAMPLE NO: 9629
PAGE 11

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155 S. RAWLES
PO BOX 67
ROMEO, MI 48065

SAMPLE DESCRIPTION: #3

TAKEN RECEIVED
11-05-87

Tetrachloroethene	<10	ppb
1,1,1-Trichloroethane	<10	ppb
1,1,2-Trichloroethane	<10	ppb
Trichloroethene	<10	ppb
Trichlorofluoromethane	<10	ppb
Vinyl Chloride	<10	ppb
Bromodichloromethane	<10	ppb
Bromomethane	<10	ppb
Chloromethane	<10	ppb
Dibromochloromethane	<10	ppb
trans-1,2-Dichloroethene	<10	ppb
cis-1,3-Dichloropropene	<10	ppb
trans-1,3-Dichloropropene	<10	ppb
.	.	
PURGEABLE AROMATICS - 602	.	
1,2,-Dichlorobenzene	<10	ppb
1,3,-Dichlorobenzene	<10	ppb
1,4,-Dichlorobenzene	<10	ppb

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UNION INTERNATIONALE des LABORATOIRES INDEPENDANTS
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Analytic & Biological Laboratories, Inc.

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11-12-87

SAMPLE NO: 9629
PAGE 12

SOUTH MACOMB DISPOSAL AUT
155 S. RAWLES
PO BOX 67
ROMEO, MI 48065

SAMPLE DESCRIPTION: #3

TAKEN RECEIVED
11-05-87

Benzene	<10	ppb
Chlorobenzene	<10	ppb
Ethylbenzene	<10	ppb
Toluene	<10	ppb

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Director of Laboratories

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11-12-87

SAMPLE NO: 9630
PAGE 14

SOUTH MACOMB DISPOSAL AUT
155 S. RAWLES
PO BOX 67
ROMEO, MI 48065

SAMPLE DESCRIPTION: FIELD BLANK

TAKEN RECEIVED
11-05-87

PURGEABLE HALOCARBONS-601 .

1,2-Dichlorobenzene	<10	ppb
1,3-Dichlorobenzene	<10	ppb
1,4-Dichlorobenzene	<10	ppb
Bromoform	<10	ppb
Carbon Tetrachloride	<10	ppb
Chlorobenzene	<10	ppb
Chloroethane	<10	ppb
2-Chloroethylvinyl Ether	<10	ppb
Chloroform	<10	ppb
Dichlorodifluoromethane	<10	ppb
1,1-Dichloroethane	<10	ppb
1,2-Dichloroethane	<10	ppb
1,1-Dichloroethylene	<10	ppb
1,2-Dichloropropane	<10	ppb
Methylene Chloride	<10	ppb
1,1,2,2-Tetrachloroethane	<10	ppb

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SAMPLE NO: 9630
PAGE 13

SOUTH MACOMB DISPOSAL AUT
155 S. RAWLES
PO BOX 67
ROMEO, MI 48065

SAMPLE DESCRIPTION: FIELD BLANK

TAKEN RECEIVED
11-05-87

Cadmium, Diss.	<0.01	mg/l
Calcium, Diss.	0.845	mg/l
Chromium, Diss.	<0.01	mg/l
Iron, Diss.	<10	mcg/l
Lead, Diss.	<0.05	mg/l
Magnesium, Diss.	<0.1	mg/l
Alkalinity	0.000	mg/l
Chloride	2.491	mg/l
C.O.D.	<1.0	mg/l
Conductivity	8.0	umhos/cm
Nitrogen, Ammonia	<0.10	mg/l
Nitrogen, Nitrate	<0.10	mg/l
Nitrogen, Nitrite	<0.01	mg/l
pH	7.20	units
Phenols	<0.01	mg/l
Sodium, Diss.	1.085	mg/l
Sulfate	1.801	mg/l
Total Organic Carbon	3.757	mg/l

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SAMPLE NO.: 9630
PAGE 15

SOUTH MACOMB DISPOSAL AUT
155 S. RAWLES
PO BOX 67
ROMEO, MI 48065

SAMPLE DESCRIPTION: FIELD BLANK

TAKEN RECEIVED
11-05-87

Tetrachloroethene	<10	ppb
1,1,1-Trichloroethane	<10	ppb
1,1,2-Trichloroethane	<10	ppb
Trichloroethene	<10	ppb
Trichlorofluoromethane	<10	ppb
Vinyl Chloride	<10	ppb
Bromodichloromethane	<10	ppb
Bromomethane	<10	ppb
Chloromethane	<10	ppb
Dibromochloromethane	<10	ppb
trans-1,2-Dichloroethene	<10	ppb
cis-1,3-Dichloropropene	<10	ppb
trans-1,3-Dichloropropene	<10	ppb
.	.	.
PURGEABLE AROMATICS - 602	.	.
1,2,-Dichlorobenzene	<10	ppb
1,3,-Dichlorobenzene	<10	ppb
1,4,-Dichlorobenzene	<10	ppb

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SAMPLE NO: 9630
PAGE 16

SOUTH MACOMB DISPOSAL AUT
155 S. RAWLES
PO BOX 67
ROMEO, MI 48065

SAMPLE DESCRIPTION: FIELD BLANK

TAKEN RECEIVED
11-05-87

Benzene	<10	ppb
Chlorobenzene	<10	ppb
Ethylbenzene	<10	ppb
Toluene	<10	ppb

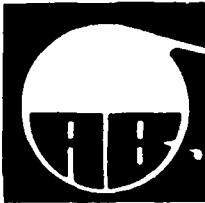
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11-12-87

SAMPLE NO: 9631
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SOUTH MACOMB DISPOSAL AUT
155 S. RAWLES
PO BOX 67
ROMEO, MI 48065

SAMPLE DESCRIPTION: 3-DUP

TAKEN RECEIVED
11-05-87

Cadmium, Diss.	<0.01	mg/l
Calcium, Diss.	113.1	mg/l
Chromium, Diss.	<0.01	mg/l
Iron, Diss.	<10	mcg/l
Lead, Diss.	<0.05	mg/l
Magnesium, Diss.	29.36	mg/l
Alkalinity	283.5	mg/l
Chloride	44.07	mg/l
C.O.D.	23.0	mg/l
Conductivity	680	umhos/cm
Nitrogen, Ammonia	0.15	mg/l
Nitrogen, Nitrate	0.369	mg/l
Nitrogen, Nitrite	0.038	mg/l
pH	6.70	units
Phenols	<0.01	mg/l
Sodium, Diss.	19.30	mg/l
Sulfate	26.82	mg/l
Total Organic Carbon	7.849	mg/l

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SAMPLE NO: 9631
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SOUTH MACOMB DISPOSAL AUT
155 S. RAWLES
PO BOX 67
ROMEO, MI 48065

SAMPLE DESCRIPTION: 3-DUP

TAKEN RECEIVED
11-05-87

PURGEABLE HALOCARBONS-601

1,2-Dichlorobenzene	<10	ppb
1,3-Dichlorobenzene	<10	ppb
1,4-Dichlorobenzene	<10	ppb
Bromoform	<10	ppb
Carbon Tetrachloride	<10	ppb
Chlorobenzene	<10	ppb
Chloroethane	<10	ppb
2-Chloroethylvinyl Ether	<10	ppb
Chloroform	<10	ppb
Dichlorodifluoromethane	<10	ppb
1,1-Dichloroethane	<10	ppb
1,2-Dichloroethane	<10	ppb
1,1-Dichloroethylene	<10	ppb
1,2-Dichloropropane	<10	ppb
Methylene Chloride	<10	ppb
1,1,2,2-Tetrachloroethane	<10	ppb

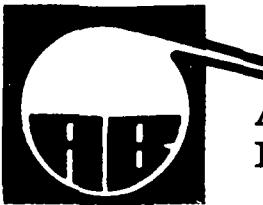
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SAMPLE NO: 9631
PAGE 19

SOUTH MACOMB DISPOSAL AUT
155 S. RAWLES
PO BOX 67
ROMEO, MI 48065

SAMPLE DESCRIPTION: 3-DUP

TAKEN RECEIVED
11-05-87

Tetrachloroethene	<10	ppb
1,1,1-Trichloroethane	<10	ppb
1,1,2-Trichloroethane	<10	ppb
Trichloroethene	<10	ppb
Trichlorofluoromethane	<10	ppb
Vinyl Chloride	<10	ppb
Bromodichloromethane	<10	ppb
Bromomethane	<10	ppb
Chloromethane	<10	ppb
Dibromochloromethane	<10	ppb
trans-1,2-Dichloroethene	<10	ppb
cis-1,3-Dichloropropene	<10	ppb
trans-1,3-Dichloropropene	<10	ppb
.	.	.
PURGEABLE AROMATICS - 602	.	.
1,2,-Dichlorobenzene	<10	ppb
1,3,-Dichlorobenzene	<10	ppb
1,4,-Dichlorobenzene	<10	ppb

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11-12-87

SAMPLE NO: 9631
PAGE 20

SOUTH MACOMB DISPOSAL AUT
155 S. RAWLES
PO BOX 67
ROMEO, MI 48065

SAMPLE DESCRIPTION: 3-DUP

TAKEN RECEIVED
11-05-87

Benzene	<10	ppb
Chlorobenzene	<10	ppb
Ethylbenzene	<10	ppb
Toluene	<10	ppb

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Appendix C
Historical Summary of Water Quality Data

South Macomb Disposal Authority
Historical Water Quality Table

<u>Parameter</u>	<u>Requested</u>	<u>MW-A</u>							
	<u>Limit</u>	<u>1/4/85</u>	<u>4/3/85</u>	<u>8/13/85</u>	<u>1/29/86</u>	<u>2/28/87</u>	<u>4/3/87</u>	<u>7/17/87</u>	<u>9/22/87</u>
pH	6.5 - 8.5	7.63	7.02	7.49	----	7.47	7.29	7.63	7.39
Chemical Oxygen Demand	50	<1	----	----	<1	20	----	16.6	10.7
Total Organic Carbon	50	26	5	3	2	2	3	6.541	6.957
Nitrogen, Nitrite	----	<0.02	<0.02	<0.02	<0.02	1.6	<0.02	0.4733	0.0627
Nitrogen, Nitrate*	10	0.02	.09	<0.02	<0.02	2.7	0.02	0.2752	0.1399
Nitrogen, Ammonia	----	.07	.24	.35	----	0.30	0.20	0.24	0.20
Phenol	----	1.7	.012	.003	0.010	<0.01	0.002	0.011	<0.01
Chloride*	250	10	21	24	21	59	49	40.13	31.00
Sulfate*	250	34	39	45	43	60	50	26.65	21.99
Alkalinity**	----	250	250	260	210	262	260	135.1	204
Sodium	10	7.3	11	7.2	5.8	9.6	8.8	9.753	10.49
Magnesium	----	22	22	24	22	25	27	26.53	22.78
Calcium	----	62	50	68	----	67	75	73.77	46.86
Conductivity	1200	510	475	540	500	580	670	420	456
Iron	.3	.03	<0.02	.81	<0.02	0.10	0.12	0.014	<0.02
Cadmium*	0.01	<0.01	----	----	<0.01	<0.01	----	<0.01	<0.01
Total Chromium*	0.05	<0.02	----	----	<0.01	<0.015	----	<0.01	<0.01
Lead*	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05

All concentrations in mg/l

*EPA mandatory limit

**Measured as CACO₃ on 1/4/85 and HCO₃ on 4/3/85 and 8/13/85

South Macomb Disposal Authority
Historical Water Quality Table

Parameter	<u>MW-B</u>								
	Requested Limit	1/4/85	4/3/85	8/13/85	1/29/86	2/28/87	4/3/87	7/17/87	9/22/87
pH	6.5 ~ 8.5	7.73	7.3	7.65	----	7.23	7.50	7.12	7.21
Chemical Oxygen Demand	50	5	----	----	8	26.7	----	22.6	16.0
Total Organic Carbon	50	<1	4	4	4	2.8	2	5.538	7.380
Nitrogen, Nitrite	----	<0.02	<0.02	<0.02	<0.02	1.38	<0.02	0.1763	0.0823
Nitrogen, Nitrate*	10	<0.02	.12	<0.02	<0.02	3.66	<0.02	0.2038	0.1508
Nitrogen, Ammonia	.1	.1	.23	.22	----	0.22	0.20	0.40	0.30
Phenol	.01	.007	.007	.003	0.002	<0.01	<0.002	<0.01	<0.01
Chloride*	250	120	74	72	66	72	63	63.65	57.45
Sulfate*	250	50	58	45	55	66	59	61.35	57.86
Alkalinity**	150	230	240	240	190	221	240	225.7	242
Sodium	10	23	30	28	29	31	28	34.15	29.05
Magnesium	----	24	24	28	26	25	28	30.77	29.15
Calcium	200	100	59	72	----	61	67	80.65	73.97
Conductivity	1200	680	465	730	700	650	690	515	762
Iron	.3	.02	<0.02	.03	<0.02	<0.01	0.02	0.056	<0.02
Cadmium*	0.01	<0.01	----	----	<0.01	<0.01	----	<0.01	<0.01
Total Chromium*	0.05	<0.02	----	----	<0.02	<0.015	----	<0.01	<0.01
Lead*	0.05	<0.05	<0.05	<0.05	0.05	<0.05	<0.05	<0.05	<0.05

All concentrations in mg/l

*EPA mandatory limit

**Measured as CACO₃ on 1/4/85 and HC0₃ on 4/3/85 and 8/13/85

South Macomb Disposal Authority
Historical Water Quality Table

Parameter	Requested Limit	MW-C						
		1/4/85	4/3/85	8/13/85	1/29/86	2/28/87	7/17/87	9/22/87
pH	6.5 - 8.5	7.27	7.05	7.41	----	7.23	7.02	7.02
Chemical Oxygen Demand	50	18	----	----	14	13	25.3	21.3
Total Organic Carbon	50	19	6	9	6	3	6.856	12.75
Nitrogen, Nitrite	----	<0.02	<0.02	.04	<0.02	1.34	0.4514	0.0703
Nitrogen, Nitrate*	10	.08	.16	<0.02	0.15	2.4	0.3095	0.1220
Nitrogen, Ammonia	.1	.15	.29	.35	----	<0.1	0.24	0.22
Phenol	.01	.007	.025	.008	0.004	<0.01	<0.01	<0.01
Chloride*	250	34	26	29	32	35	48.04	47.87
Sulfate*	250	70	69	68	56	70	2.377	17.42
Alkalinity**	150	390	360	430	260	295	210.9	176
Sodium	10	9.9	13	8.2	7.2	7.1	6.861	6.087
Magnesium	----	33	29	38	26	32	24.90	21.53
Calcium	200	120	78	110	----	82	51.56	55.54
Conductivity	1200	750	695	820	650	623	350	505
Iron	.3	.44	.08	<0.02	0.35	0.4	0.030	<0.02
Cadmium*	0.01	<0.01	----	----	<0.01	0.01	<0.01	<0.01
Total Chromium*	0.05	<0.02	----	----	<0.02	<0.015	<0.01	<0.01
Lead*	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05

All concentrations in mg/l

*EPA mandatory limit

**Measured as CACO₃ on 1/4/85 and HCO₃ on 4/3/85 and 8/13/85

South Macomb Disposal Authority
Historical Water Quality Table

MW-D

Parameter	Requested								
	Limit	1/4/85	4/3/85	8/13/85	1/29/86	2/28/87	4/3/87	7/17/87	9/22/87
pH	6.5 - 8.5	7.11	6.92	6.99	----	6.95	7.04	6.69	7.10
Chemical Oxygen Demand	50	13	----	----	18	67	----	38.6	21.3
Total Organic Carbon	50	4	10	5	6	2	3	6.734	11.90
Nitrogen, Nitrite	----	<0.02	<0.02	<0.02	<0.02	1.4	<0.02	0.3125	0.904
Nitrogen, Nitrate*	10	<0.02	<0.02	<0.02	<0.02	2.8	<0.02	0.2159	0.1126
Nitrogen, Ammonia	.1	.32	.33	.35	----	<0.10	0.36	0.44	0.56
Phenol	.01	.004	.01	.023	0.010	<0.01	<0.002	<0.01	<0.01
Chloride*	250	56	54	76	66	74	85	79.55	73.27
Sulfate*	250	21	30	83	16	39	27	46.42	18.93
Alkalinity**	150	560	580	550	320	437	420	175.5	410
Sodium	10	2.2	24	28	20	27	21	23.02	23.65
Magnesium	----	36	28	35	32	35	39	40.95	38.96
Calcium	200	140	110	140	----	57	120	136.1	124.2
Conductivity	1200	980	990	1040	780	820	880	720	940
Iron	.3	2.1	3.3	<0.02	<0.02	0.01	4.2	0.042	0.030
Cadmium*	0.01	<0.01	----	----	<0.01	<0.01	----	<0.01	<0.01
Total Chromium*	0.05	<0.02	----	----	<0.02	<0.015	----	<0.01	<0.01
Lead*	0.05	<0.05	<0.05	<0.05	<0.05	0.05	<0.05	<0.05	<0.05

All concentrations in mg/l

*EPA mandatory limit

**Measured as CACO₃ on 1/4/85 and HC03 on 4/3/85 and 8/13/85

South Macomb Disposal Authority
Historical Water Quality Table

Parameter	<u>MW-E</u>								
	Requested Limit	1/4/85	4/3/85	8/13/85	1/29/86	2/28/87	4/3/87	7/17/87	9/22/87
pH	6.5 - 8.5	7.52	7.29	7.49	----	7.13	7.39	7.10	7.36
Chemical Oxygen Demand	50	4	----	----	18	10	----	22.6	13.3
Total Organic Carbon	50	2	2	4	3	1	2	7.374	6.916
Nitrogen, Nitrite	----	<0.02	<0.02	<0.02	<0.02	1.27	<0.02	0.3414	0.0947
Nitrogen, Nitrate*	10	<0.02	.04	<0.02	<0.02	2.33	<0.02	0.2650	0.1386
Nitrogen, Ammonia	.1	.12	.24	.27	----	<0.10	0.20	0.14	0.11
Phenol	.01	<0.002	.012	.016	0.004	<0.01	<0.002	0.028	<0.01
Chloride*	250	35	37	41	39	46	41	48.83	41.40
Sulfate*	250	41	42	43	46	46	26	40.10	37.57
Alkalinity**	150	300	320	320	260	240	260	150.0	244
Sodium	10	13	14	8.9	10	10	9.5	11.63	11.56
Magnesium	----	25	26	25	26	23	22	27.43	24.16
Calcium	200	83	70	71	----	76	65	89.61	73.37
Conductivity	1200	660	625	690	640	609	600	520	535
Iron	.3	.02	.24	<0.02	0.02	0.08	0.03	0.012	<0.02
Cadmium*	0.01	<0.01	----	----	<0.01	0.01	----	<0.01	<0.01
Total Chromium*	0.05	<0.02	----	----	<0.02	<0.015	----	<0.01	<0.01
Lead*	0.05	<005	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05

All concentrations in mg/l

*EPA mandatory limit

**Measured as CACO₃ on 1/4/85 and HCO₃ on 4/3/85 and 8/13/85

South Macomb Disposal Authority
Historical Water Quality Table

Parameter	Requested Limit	MW-F							
		1/4/85	4/3/85	8/13/85	1/29/86	4/28/87	4/3/87	7/17/87	9/22/87
pH	6.5 - 8.5	6.93	6.63	7.02	----	6.75	6.61	6.77	6.85
Chemical Oxygen Demand	50	18	----	----	22	47	----	58.6	50.7
Total Organic Carbon	50	8	15	9	6	6	6	13.18	13.47
Nitrogen, Nitrite	----	<0.02	.02	<0.02	<0.02	1.30	<0.02	0.4047	0.0974
Nitrogen, Nitrate*	10	<0.02	.04	<0.02	<0.02	2.22	0.02	0.2619	0.1444
Nitrogen, Ammonia	.1	7.1	5.5	5.6	----	7.50	3.5	6.00	2.70
Phenol	.01	.007	.025	.017	<0.002	<0.01	0.004	0.026	<0.01
Chloride*	250	130	110	110	100	175	130	154.3	200.7
Sulfate*	250	72	41	42	46	67	56	66.10	28.67
Alkalinity**	150	490	590	700	520	690	630	305.3	484
Sodium	10	35	73	38	41	50	42	53.01	54.60
Magnesium	----	37	44	4	48	59	54	74.90	56.06
Calcium	200	100	130	150	----	152	120	181.9	123.1
Conductivity	1200	1120	1160	1380	1250	1455	1000	1200	1182
Iron	.3	8.8	15	<0.02	0.66	0.02	18	0.163	<0.02
Cadmium*	0.01	<0.01	----	----	<0.01	0.01	----	<0.01	0.01
Total Chromium*	0.05	<0.02	----	----	0.02	<0.015	----	<0.01	<0.01
Lead*	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05

All concentrations in ug/l

*EPA mandatory limit

**Measured as CACO3 on 1/4/85 and HCO3 on 4/2/85 and 8/13/85

South Macomb Disposal Authority
Historical Water Quality Table

MW-G

Parameter	Requested								
	Limit	1/4/85	4/3/85	8/13/85	1/29/86	2/28/87	4/3/87	7/17/87	9/22/87
pH	6.5 - 8.5	7.06	6.55	6.94	----	6.77	6.61	6.83	6.95
Chemical Oxygen Demand	50	22	----	----	8	13	----	24.0	18.7
Total Organic Carbon	50	9	18	9	7	5	5	11.11	8.515
Nitrogen, Nitrite	----	.02	.05	.07	<0.02	1.6	<0.02	0.4052	0.0974
Nitrogen, Nitrate*	10	.12	.28	1.3	<0.02	2.5	0.03	0.2984	0.1717
Nitrogen, Ammonia	.1	.34	.45	.9	----	0.4	0.4	1.05	0.86
Phenol	.01	.003	.005	.037	0.003	<0.01	0.009	0.014	<0.01
Chloride*	250	27	13	26	19	31	27	28.04	30.98
Sulfate*	250	71	27	120	62	105	99	100.3	100.2
Alkalinity**	150	850	1120	860	850	729	630	209.8	496
Sodium	10	20	21	14	12	18	14	16.03	20.05
Magnesium	----	53	60	54	60	44	43	51.11	40.82
Calcium	200	210	210	220	---	90	180	212.5	162.1
Conductivity	1200	1360	1390	1390	1300	1258	1200	890	1319
Iron	.3	4.4	4	<0.02	0.02	0.01	2.3	0.021	<0.02
Cadmium*	0.01	<0.01	----	----	<0.01	<0.01	----	<0.01	<0.01
Total Chromium*	0.05	<0.02	----	----	<0.02	<0.015	----	<0.01	<0.01
Lead*	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05

All concentrations in mg/l

*EPA mandatory limit

**Measured as CACO₃ on 1/4/85 and HC0₃ on 4/3/85 and 8/13/85

South Macomb Disposal Authority
Historical Water Quality Table

<u>Parameter</u>	<u>MW-H</u>								
	<u>Requested Limit</u>	<u>1/4/85</u>	<u>4/3/85</u>	<u>8/13/85</u>	<u>1/29/86</u>	<u>2/28/87</u>	<u>4/3/87</u>	<u>7/17/87</u>	<u>9/22/87</u>
pH	6.5 - 8.5	7.3	6.83	7.06	----	6.80	6.70	6.82	6.99
Chemical Oxygen Demand	50	18	----	----	19	33	----	32.0	32.0
Total Organic Carbon	50	6	11	5	6	4	4	9.804	7.502
Nitrogen, Nitrite	----	<0.02	.04	<0.02	<0.02	1.40	<0.02	0.3244	0.0867
Nitrogen, Nitrate*	10	<0.02	.04	<0.02	<0.02	2.14	0.03	0.2134	0.1461
Nitrogen, Ammonia	.1	.25	.19	.46	----	0.12	0.20	0.74	0.37
Phenol	.01	<0.002	.01	.007	0.022	<0.01	<0.002	<0.01	<0.01
Chloride*	250	100	120	130	140	111	110	100.2	103.3
Sulfate*	250	170	50	80	28	66	56	103.8	35.45
Alkalinity**	150	970	890	1030	830	873	860	416.6	702
Sodium	10	52	58	48	69	38	48	39.56	51.66
Magnesium	----	86	68	80	70	74	82	90.65	64.92
Calcium	200	270	160	240	----	188	170	217.9	158.3
Conductivity	1200	1690	1450	1750	1500	1610	1300	1300	1680
Iron	.3	.02	.46	<0.02	0.02	<0.01	0.69	0.016	<0.02
Cadmium*	0.01	<0.01	----	----	<0.01	0.01	----	<0.01	<0.01
Total Chromium*	0.05	<0.02	----	----	<0.02	<0.015	----	<0.01	<0.01
Lead*	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05

All concentrations in mg/l

*EPA mandatory limit

**Measured as CACO₃ on 1/4/85 and HCO₃ on 4/3/85 and 8/13/85

South Macomb Disposal Authority
Historical Water Quality Table

MW-I

Parameter	Requested Limit		1/4/85	4/3/85	8/13/85	1/29/86	2/28/87	4/3/87	7/17/87	9/22/87
	Limit	1/4/85	4/3/85	8/13/85	1/29/86	2/28/87	4/3/87	7/17/87	9/22/87	
pH	6.5 ~ 8.5	7.72	6.55	7.6	----	7.29	7.54	7.21	7.30	
Chemical Oxygen Demand	50	5	----	----	9	7	----	6.6	13.3	
Total Organic Carbon	50	18	6	3	2	1	2	6.807	3.797	
Nitrogen, Nitrite	---	<0.02	.02	<0.02	<0.02	1.41	<0.02	0.2735	0.0987	
Nitrogen, Nitrate*	10	<0.02	.05	<0.02	0.07	2.13	0.02	0.1832	0.2235	
Nitrogen, Ammonia	.1	.15	.24	.27	----	<0.10	0.20	0.44	0.18	
Phenol	.01	.1	<0.002	.008	0.006	<0.01	0.002	<0.01	<0.01	
Chloride*	250	5	7	10	11	19	5	14.75	13.41	
Sulfate*	250	49	45	45	50	51	48	47.06	42.56	
Alkalinity**	150	59	320	310	250	206	270	243.4	240	
Sodium	10	9	8	5	5.6	5.2	5.0	9.059	5.774	
Magnesium	---	23	22	23	23	5.2	19	24.82	22.92	
Calcium	200	75	59	76	----	70	59	81.12	73.18	
Conductivity	1200	550	520	580	540	502	520	430	692	
Iron	.3	.02	.02	<0.02	0.02	0.16	0.15	0.233	<0.02	
Cadmium*	0.01	<0.01	----	----	<0.01	0.01	----	<0.01	<0.01	
Total Chromium*	0.05	<0.02	----	----	0.02	<0.015	----	0.012	<0.01	
Lead*	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	

All concentrations in mg/l

*EPA mandatory limit

**Measured as CACO₃ on 1/4/85 and HC03 on 4/3/85 and 8/13/85

South Macomb Disposal Authority
Historical Water Quality Table

Parameter	MW-K								
	Requested Limit	1/4/85	4/3/85	8/13/85	1/29/86	2/28/87	4/3/87	7/17/87	9/22/87
pH	6.5 - 8.5	7.17	6.83	6.83	----	6.91	6.80	6.81	6.92
Chemical Oxygen Demand	50	77	----	----	87	213	----	58.0	107.0
Total Organic Carbon	50	60	18	16	28	44	52	40.63	41.23
Nitrogen, Nitrite	----	.25	.67	.21	0.54	2.23	0.23	0.3331	0.1375
Nitrogen, Nitrate*	10	51	18.3	52	48	4.1	22	0.2695	0.7978
Nitrogen, Ammonia	.1	.23	.4	.13	----	2.05	0.68	1.10	1.80
Phenol	.01	.004	.006	.015	0.002	<0.01	<0.002	<0.01	<0.01
Chloride*	250	410	980	680	740	525	600	337.1	326.5
Sulfate*	250	880	390	710	1500	903	900	795.4	701.6
Alkalinity**	150	1050	830	850	900	965	260	219.2	864
Sodium	10	410	570	380	580	491	350	348.5	324.1
Magnesium	----	130	73	110	100	112	120	125.5	100.1
Calcium	200	490	250	480	----	192	280	345.4	267.0
Conductivity	1200	4600	4450	4450	5000	2900	3800	2700	2900
Iron	.3	.11	.07	<0.02	0.02	0.01	0.08	0.018	0.077
Cadmium*	0.01	.04	----	----	0.01	<0.01	----	<0.01	0.01
Total Chromium*	0.05	<0.02	----	----	<0.02	0.016	----	<0.01	<0.01
Lead*	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05

All concentrations in mg/l

*EPA mandatory limit

**Measured as CACO₃ on 1/4/85 and HCO₃ on 4/3/85 and 8/13/85

South Macomb Disposal Authority
Historical Water Quality Table

Parameter	<u>MW-L</u>								
	Requested Limit	1/4/85	4/3/85	8/13/85	1/29/86	2/28/87	4/3/87	7/17/87	9/22/87
pH	6.5 - 8.5	7.28	7.46	7.15	----	7.04	6.87	7.06	7.02
Chemical Oxygen Demand	50	6	----	----	12	40	----	52.6	37.3
Total Organic Carbon	50	19	8	4	4	2.9	3	11.91	9.640
Nitrogen, Nitrite	----	.03	.05	.05	<0.02	1.54	0.05	0.4213	0.0747
Nitrogen, Nitrate*	10	.38	1.85	.42	0.15	2.95	0.18	0.2674	0.1471
Nitrogen, Ammonia	.1	.13	.29	.33	----	<0.10	0.28	0.30	0.31
Phenol	.01	.002	.113	.014	0.008	<0.01	0.004	0.026	<0.01
Chloride*	250	120	120	160	170	144	150	128.7	124.0
Sulfate*	250	87	91	100	76	71	77	96.27	115.6
Alkalinity**	150	490	510	860	480	541	540	199.3	490
Sodium	10	25	41	42	37	32	28	36.33	33.12
Magnesium	----	41	38	53	49	41	38	46.58	43.68
Calcium	200	110	127	200	----	174	140	191.1	185.1
Conductivity	1200	1100	1200	1400	1400	1223	1000	1000	1187
Iron	.3	.06	.16	<0.02	----	0.01	2.3	0.013	<0.02
Cadmium*	0.01	.01	----	----	<0.01	0.01	----	<0.01	<0.01
Total Chromium*	0.05	<0.02	----	----	<0.02	<0.015	----	<0.01	<0.01
Lead*	0.05	<0.05	<0.05	<0.05	<0.05	0.05	<0.05	<0.05	<0.05

All concentrations in mg/l

*EPA mandatory limit

**Measured as CACO₃ on 1/4/85 and HC03 on 4/3/85 and 8/13/85

South Macomb Disposal Authority
Historical Water Quality Table

Parameter	<u>MW-M</u>								
	Requested Limit	1/4/85	4/3/85	8/13/85	1/29/86	2/28/87	4/3/87	7/17/87	9/22/87
pH	6.5 - 8.5	7.45	6.74	7.32	----	7.39	7.34	7.18	7.21
Chemical Oxygen Demand	50	9	----	----	14	43	----	26.6	25.3
Total Organic Carbon	50	12	8	5	4	20	19	10.58	5.645
Nitrogen, Nitrite	----	<0.02	<0.02	<0.02	<0.02	1.32	<0.02	0.3684	0.0616
Nitrogen, Nitrate*	10	<0.02	.02	.02	0.03	1.96	0.05	0.2199	0.1075
Nitrogen, Ammonia	.1	.05	.19	.12	----	<0.10	0.12	0.44	0.15
Phenol	.01	.002	.003	.012	0.008	<0.01	0.002	0.012	<0.01
Chloride*	250	61	60	61	71	91	95	85.38	81.88
Sulfate*	250	83	65	79	55	18	16	16.12	27.68
Alkalinity	150	320	440	470	280	279	310	218.1	280
Sodium	10	20	32	20	25	30	24	32.69	25.43
Magnesium	----	30	31	37	31	26	24	29.83	28.24
Calcium	200	120	94	120	----	70	72	91.08	89.12
Conductivity	1200	810	885	980	830	710	770	640	634
Iron	.3	<0.02	.02	<0.02	0.05	<0.01	0.07	0.037	0.036
Cadmium*	0.01	<0.01	----	----	<0.01	<0.01	----	<0.01	<0.01
Total Chromium*	0.05	<0.02	----	----	0.02	0.016	----	<0.01	<0.01
Lead*	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05

All concentrations in mg/l

*EPA mandatory limit

**Measured as CACO₃ on 1/4/85 and HC0₃ on 4/3/85 and 8/15/85

South Macomb Disposal Authority
Historical Water Quality Table

<u>Parameter</u>	<u>MW-N</u>								
	<u>Requested Limit</u>	<u>1/4/85</u>	<u>4/3/85</u>	<u>8/13/85</u>	<u>1/29/86</u>	<u>2/28/87</u>	<u>4/3/87</u>	<u>7/17/87</u>	<u>9/22/87</u>
pH	6.5 - 8.5	7.57	7.35	7.51	----	7.54	7.48	7.18	7.30
Chemical Oxygen Demand	50	3	----	----	4	13	----	18.0	13.3
Total Organic Carbon	50	8	5	2	3	1	2	7.306	4.529
Nitrogen, Nitrite	----	<0.02	.02	<0.02	<0.02	1.06	<0.02	0.3417	0.0739
Nitrogen, Nitrate*	10	<0.02	.02	<0.02	<0.02	1.66	0.05	0.2296	0.1185
Nitrogen, Ammonia	.1	.08	.29	.42	----	0.28	0.08	0.40	0.15
Phenol	.01	<0.002	<0.002	.012	0.002	<0.01	<0.002	<0.01	<0.01
Chloride*	250	58	56	62	60	58	63	59.83	49.16
Sulfate*	250	70	57	84	58	90	56	74.73	67.14
Alkalinity**	150	270	300	310	240	226	260	174.1	230
Sodium	10	11	15	16	16	13	10	16.44	12.69
Magnesium	----	26	20	30	29	25	22	29.46	26.63
Calcium	200	110	70	94	----	84	68	92.59	85.90
Conductivity	1200	710	690	790	760	704	700	580	821
Iron	.3	<0.02	.04	<0.02	<0.02	0.08	0.02	0.062	<0.02
Cadmium*	0.01	<0.01	----	----	<0.01	<0.01	----	<0.01	<0.01
Total Chromium*	0.05	<0.02	----	----	<0.02	<0.015	----	<0.01	<0.01
Lead*	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05

All concentrations in mg/l

*EPA mandatory limit

**Measured as CACO₃ on 1/4/85 and HC03 on 4/3/85 and 8/13/85

South Macomb Disposal Authority
Historical Water Quality Table

MW-0

<u>Parameter</u>	<u>Requested</u>	<u>MW-0</u>							
	<u>Limit</u>	<u>1/4/85</u>	<u>4/3/85</u>	<u>8/15/85</u>	<u>1/29/86</u>	<u>2/28/87</u>	<u>4/3/87</u>	<u>7/17/87</u>	<u>9/22/87</u>
pH	6.5 - 8.5	7.63	7.48	7.71	----	7.03	7.47	6.96	7.30
Chemical Oxygen Demand	50	<1	----	----	27	33	----	28.6	21.3
Total Organic Carbon	50	9	5	3	7	2.4	2	4.251	4.927
Nitrogen, Nitrite	----	<0.02	.03	<0.02	<0.02	1.38	<0.02	0.3297	0.0699
Nitrogen, Nitrate*	10	2.5	1.37	1.5	3.5	6.2	4.0	0.2285	0.1491
Nitrogen, Ammonia	.1	.15	.24	.07	----	<0.10	0.12	0.50	0.20
Phenol	.01	.005	.013	.013	0.006	<0.01	0.01	<0.01	<0.01
Chloride*	250	63	54	70	59	87	85	99.03	83.82
Sulfate*	250	90	75	99	73	79	63	71.20	64.22
Alkalinity**	150	250	300	300	270	204	280	194.1	244
Sodium	10	17	17	17	19	23	21	26.92	23.87
Magnesium	----	24	30	30	31	26	24	29.83	28.17
Calcium	200	100	75	100	----	64	82	104.3	99.26
Conductivity	1200	770	740	830	820	605	840	700	1024
Iron	.3	.04	.04	<0.02	0.02	<0.01	<0.02	<0.01	<0.02
Cadmium*	0.01	<0.01	----	----	<0.01	<0.01	----	<0.01	<0.01
Total Chromium*	0.05	<0.02	----	----	<0.02	<0.015	----	<0.01	<0.01
Lead*	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05

All concentrations in mg/l

*EPA mandatory limit

**Measured as CACO₃ on 1/4/85 and HCO₃ on 4/3/85 and 8/15/85

South Macomb Disposal Authority
Historical Water Quality Table

<u>Parameter</u>	<u>MW-P</u>								
	<u>Requested Limit</u>	<u>1/4/85</u>	<u>4/3/85</u>	<u>8/15/85</u>	<u>1/29/86</u>	<u>2/28/87</u>	<u>4/3/87</u>	<u>7/17/87</u>	<u>9/22/87</u>
pH	6.5 - 8.5	7.6	7.37	7.61	----	7.03	7.48	7.12	7.21
Chemical Oxygen Demand	50	<1	----	----	5	10	----	15.3	10.7
Total Organic Carbon	50	3	5	2	3	0.8	2	19.15	4.533
Nitrogen, Nitrite	----	<0.02	.02	<0.02	<0.02	1.58	<0.02	0.3574	0.0824
Nitrogen, Nitrate*	10	8.1	6	9.2	11.0	17.5	11	0.2287	0.3282
Nitrogen, Ammonia	.1	.08	.16	.13	----	0.75	0.16	0.34	0.31
Phenol	.01	.006	.002	.021	0.002	<0.01	<0.002	<0.01	<0.01
Chloride*	250	51	62	56	49	34	44	30.90	26.95
Sulfate*	250	32	32	36	34	37	34	24.40	25.94
Alkalinity**	150	270	300	340	290	241	280	241.6	248
Sodium	10	13	14	15	21	18	16	25.26	19.96
Magnesium	----	25	20	30	30	22	21	25.57	23.08
Calcium	200	100	70	100	----	56	69	88.47	79.05
Conductivity	1200	740	760	810	810	605	660	560	647
Iron	.3	.06	.04	<0.02	0.06	0.04	<0.02	<0.01	<0.02
Cadmium*	0.01	<0.01	----	----	<0.01	0.01	----	<0.01	<0.01
Total Chromium*	0.05	<0.02	----	----	<0.02	<0.015	----	<0.01	<0.01
Lead*	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05

All concentrations in mg/l

*EPA mandatory limit

**Measured as CACO₃ on 1/4/85 and HC03 on 4/3/85 and 8/15/85

South Macomb Disposal Authority
Historical Water Quality Table

MW-0

<u>Parameter</u>	<u>Requested</u>								
	<u>Limit</u>	<u>1/4/85</u>	<u>4/3/85</u>	<u>8/15/85</u>	<u>1/29/86</u>	<u>2/28/87</u>	<u>4/3/87</u>	<u>7/17/87</u>	<u>9/22/87</u>
pH	6.5 - 8.5	7.47	7.17	7.59	----	6.95	7.15	7.16	7.03
Chemical Oxygen Demand	50	<1	----	----	460	33	----	62.0	29.3
Total Organic Carbon	50	6	10	5	135	7.3	3	24.73	8.269
Nitrogen, Nitrite	----	<0.02	<0.02	<0.02	<0.02	1.46	<0.02	0.3459	0.0868
Nitrogen, Nitrate*	10	<0.02	<0.02	<0.02	<0.02	2.82	0.08	0.2101	0.1467
Nitrogen, Ammonia	.1	.18	.27	.07	----	0.75	0.65	1.00	0.95
Pheno1	.01	.003	.006	.095	0.016	<0.01	<0.002	<0.01	<0.01
Chloride*	250	83	78	73	150	83	98	93.30	90.75
Sulfate*	250	28	44	56	96	84	41	38.72	52.07
Alkalinity**	150	350	420	310	900	395	350	354.5	440
Sodium	10	32	39	34	50	27	24	52.36	40.92
Magnesium	----	31	40	31	98	38	28	45.67	47.29
Calcium	200	110	70	68	----	82	78	120.7	114.8
Conductivity	1200	880	900	780	1850	1029	890	820	1450
Iron	.3	.04	.03	<0.02	0.09	0.012	0.27	0.022	<0.02
Cadmium*	0.01	<0.01	----	----	<0.01	0.01	----	<0.01	<0.01
Total Chromium*	0.05	<0.02	----	----	<0.02	<0.015	----	<0.01	<0.01
Lead*	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05

All concentrations in mg/l

*EPA mandatory limit

**Measured as CACO₃ on 1/4/85 and HCO₃ on 4/3/85 and 8/13/85